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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER QUALITY MANAGEMENT

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

GENERAL PERMIT FOR DISCHARGES OF STORM WATER FROM
INDUSTRIAL ACTIVITIES
PAG-3

NPDES PERMIT NO: **PAR113530** (SIC #3532)

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 et seq. (the "Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 et seq., the Department of Environmental Protection hereby Authorizes:

ALLIS MINERAL SYSTEMS GRINDING DIVISION SVEDALA INDUSTRIES, INC.
240 Arch Street, York, Pennsylvania 17405

Spring Garden Township, York County

to discharge storm water to the **Codorus Creek**

subject to the terms and criteria contained herein, for the discharge of storm water from point sources composed entirely of storm water associated, in whole or in part, with industrial activity, as defined in this General Permit, to surface waters of the Commonwealth, including to municipal separate storm sewers and non-municipal separate storm sewers. All monitoring and reporting requirements specified in Appendix J to this permit apply to this discharge.

This permit authorizes certain new and existing (those industrial activities discharging storm water as of October 1, 1992) discharges of storm water associated with industrial activity to receiving water in accordance with effluent limitations, including the development and implementation of Best Management Practices (BMPs) monitoring requirements, and other conditions set forth in Parts A, B, and C hereof.

Coverage under this General NPDES Permit shall commence on September 21, 1995 and shall expire at midnight, September 21, 2000, unless extended by the Department.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENTOFFICIAL USE ONLY
PA R 11.3530SIMPLIFIED APPLICATION FOR NPDES PERMIT FOR
DISCHARGES OF STORM WATER ASSOCIATED WITH INDUSTRIAL ACTIVITIES
(PLEASE CAREFULLY READ ATTACHED INSTRUCTIONS BEFORE COMPLETING THIS APPLICATION)

A. APPLICANT/OPERATOR NAME: SVEDALA INDUSTRIES, INC.	B. FACILITY NAME (IF APPLICABLE): ALLIS MINERAL SYSTEMS GRINDING DIVISION SVEDALA INDUSTRIES, INC.																				
TELEPHONE NO.: 717-843-8671	TELEPHONE NO.: 717-843-8671																				
MAILING ADDRESS: 240 Arch Street P. O. Box 15312 York, PA 17405	MAILING ADDRESS: 240 Arch Street P. O. Box 15312 York, PA 17405																				
C. FACILITY LOCATION: County: York Municipality: York City Spring Garden Twp.																					
D. EXISTING PERMITS: Include Earth Disturbance permits, NPDES permits and any other environmental quality permits. <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;">Type of Permit</th><th style="width: 20%;">Permit No.</th><th style="width: 20%;">Date Issued</th><th style="width: 30%;">Issued By</th></tr></thead><tbody><tr><td>NA</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></tbody></table>		Type of Permit	Permit No.	Date Issued	Issued By	NA															
Type of Permit	Permit No.	Date Issued	Issued By																		
NA																					
E. OPERATOR STATUS: OWNER <input type="checkbox"/> OPERATOR ONLY <input type="checkbox"/> CONTRACTOR <input type="checkbox"/> OWNER/OPERATOR <input checked="" type="checkbox"/>																					
F. FACILITY STATUS: FEDERAL <input type="checkbox"/> STATE <input type="checkbox"/> PRIVATE <input checked="" type="checkbox"/> PUBLIC <input type="checkbox"/> OTHER <input type="checkbox"/> Please explain: _____																					
G. SIC CODE(S) (4-digit): 3532 N/A																					
H. FACILITY DESCRIPTION: Provide a brief description of the industrial activities performed at the facility and attach a site plan (8.5 X 11 size) to the application. Reference attached description.																					
I. SITE LOCATION AND DRAINAGE MAP: LATITUDE: 39° / 58' / 55" LONGITUDE: 76° / 43' / 31" U.S.G.S. QUAD NO.: _____ W _____ N3952.5-W7637.5/7.5 U.S.G.S. QUAD NAME: York Quadrangle Locate the site on a U.S.G.S. topographical map. Locate each outfall. Indicate the drainage area served by each outfall. Indicate																					

J. OUTFALL INFORMATION: Total # outfalls at site? 2 # outfalls NPDES permitted? 0 # storm water only? 2

For each storm water outfall, provide the following quantitative information: Provide total acreage of impervious surface: 9

OUTFALL NUMBER	OUTFALL LOCATION	DISCHARGE TO	TOTAL ACREAGE OF IMPERVIOUS SURFACE	TYPE OF AREA SURFACED	IMPERVIOUS COEFFICIENT	VOLUME OF STORM WATER
#1	Reference Plot Plan and attached outfall descriptions	Poor House Run To Codorus Creek	1/4 Acre	Roof, Parking Lot, Electrical Trench	0.90	98 * cu ft /day
#2	Reference Plot Plan and attached outfall descriptions	York City Storm Sewer to Codorus Creek	1/2 Acre	Roof, Service Road, Parking Lot	0.90	197 * cu ft /day
#3	Reference Plot Plan and attached outfall descriptions	Poor House Run To Codorus Creek	1/10 Acre	Material Storage	0.90	39 * cu ft /day

NON-STORM WATER EVALUATION CERTIFICATION: I certify that I have evaluated all outfalls sought to be covered under this application pursuant to 40 CFR 122.28(a)(1)(ii)(C).

Name Korlan B. Strayer Signature [Signature] Title Mgr., Manufacturing Date 10-28-92

If you do not have the non-storm water evaluation data, do you wish to apply for a six (6) month time extension for submitting the data? YES ☐ NO ☒

K. CHAPTER 93 RECEIVING WATER CLASSIFICATION: For those outfalls discharging to waters of the Commonwealth provide the receiving water classification provided in the Chapter 93 regulations. If you answer "yes" for any outfall, you must file an individual permit application. (see instructions)

RECEIVING WATER	CHAPTER 93 CLASSIFICATION	'SPECIAL PROTECTION' WATER?
(a) Poor House Run to the Codorus Creek	WWF	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
(b) York City Storm Sewer Collection System to the Codorus Creek	WWF	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
(c) Poor House Run to the Codorus Creek	WWF	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

L. QUALITATIVE DATA: Submit all required data, use a separate sheet if necessary. If you do not have the data, do you wish to apply for a six (6) month time extension for submitting the data? YES ☒ NO ☐

POLLUTANT	CONCENTRATION	SOURCE	SAMPLE TYPE	DATE(S)/NUMBER OF SAMPLES
(a)				
(b)				
(c)				
(d)				
(e)				

* Based on average daily rainfall of 0.12 inches.

M. POTENTIAL POLLUTANT SOURCES: Do you know or have reason to believe toxic pollutants are or may be discharged through one or more of the storm water discharge outfalls covered in this application. Use a separate sheet if necessary.

YES ☐ NO ☒

Will you use, store, process or dispose chemicals, solvents, or other hazardous wastes at the facility? YES ☒ NO ☐

A PPC Plan, consistent with the regulations at 25 Pa. Code §101.3, must be completed and maintained on-site and implemented.

DESCRIPTION OF CONTROL MEASURES Describe any existing structural and nonstructural control measures used to reduce pollutants in the storm water runoff. Use separate sheets as necessary.

SEE ATTACHMENT

DESCRIPTION OF LEAKS OR SPILLS: Describe any significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released. In addition, describe the steps taken to avoid such leaks or spill in the future. Use separate sheets as necessary.

NONE

N. FACILITY IMPROVEMENTS: Describe any improvements currently underway, and/or planned, and give an estimated schedule of completion.

NONE

O. IF A GENERAL PERMIT IS AVAILABLE AT A LATER DATE AND YOUR FACILITY IS ELIGIBLE FOR COVERAGE, DO YOU WANT TO BE COVERED BY THE GENERAL PERMIT? YES ☒ NO ☐

PLEASE NOTE: If you checked YES, the simplified application will be treated as the Notice of Intent (NOI) to be covered under the general permit once the general permit for storm water discharges associated with industrial activity is finalized. You must submit the minimum required sampling and other data with this application unless you obtain a six (6) month time extension by checking the appropriate box below or your NOI for coverage under the general permit is approved by the Department before the expiration of any time extension approved by the Department. If you do not have the data, do you wish to apply for a six (6) month time extension for submitting the data? YES ☒ NO ☐.

If you checked NO to the top yes/no question in this box, You may use this application as an individual NPDES permit application for a storm water discharge associated with industrial activity composed entirely of storm water or you may apply for an individual permit by submitting Federal Form 1 (EPA Form 3510-1) and Federal Form 2F (EPA Form 3510-2F).

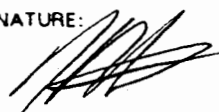
P. CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE:

KORLAN B. STRAYER
MANUFACTURING MANAGER

SIGNATURE:



DATE SIGNED:

10-28-92

PROFESSIONAL
SEAL
(IF APPROPRIATE)

SECTION H - FACILITY DESCRIPTION

- Allis Mineral Systems is the manufacturer of size reduction equipment for the mining and industrial minerals industry.

This facility is primarily a large fabrication and machine shop which employs the manufacturing processes of burning/cutting of steel plate, forming, welding, machining, and assembly of products known as Ball Mills, Sag Mills, Conical Ball Mills, Vertimills, etc.

- Allis Mineral Systems does not store, treat, or dispose of hazardous materials at this facility, but we do contract a local company to spray weed killer around all the fences that border our property, one time per year.

SECTION J - OUTFALL INFORMATION

- Facility Site Plan B001-1992 indicates the manufacturing area under roof, material storage area, office area, and paved area.
- Facility Site Plan B002-1992 indicates outfall influence areas, and sheet flow.
- Outfall No. 1 consists of a long narrow concrete trench which houses the electrification for our outdoor Gantry Crane. It receives storm water from a portion of the manufacturing roof as well as some from our employee parking lot. Water flows from the trench into Poor House Run and subsequently to the Codorus Creek.
- Outfall No. 2 is a small grated trench which collects water from our service road, some material storage area, and a portion of our manufacturing roof. The water is discharged onto Arch St. at one location, which eliminates a large sheet flow onto Arch St., during heavy rains. Water from this area flows down Arch Street, into the City's storm sewer system and subsequently to the Codorus Creek.
- Outfall No. 3 consists of a large concrete pit in which we store our large sheets of plate steel prior to being used in the production of our equipment. The outfall from this area is the result of a drain located at the end of the pit. Water flows from the pit into Poor House Run and subsequently flows to the Codorus Creek.

SECTION M - CONTROL MEASURES

- Allis Mineral Systems does have in place a PPC Plan which indicates the spill prevention and clean-up procedures as well as the persons responsible for this activity.
- All potential hazardous material are stored under cover in buildings which eliminates coming in contact with stormwater with the exception of our NO.2 fuel oil used for some of our material handling equipment. This product is stored outside within a secondary concrete containment area. In the event that there would be a leak in one of the two 275 gallon tanks the product would be contained and unable to flow into any storm sewer system.



YORK QUADRANGLE
PENNSYLVANIA YORK CO
7.5 MINUTE SERIES (TOPOGRAPHIC)

ENGR ARCH

DESIGN BY

DRAWN BY

CHECK BY

DATE



Consulting Engineers and Planners

SITE LOCATION & SURROUNDING VICINITY SVEDALA, INC.

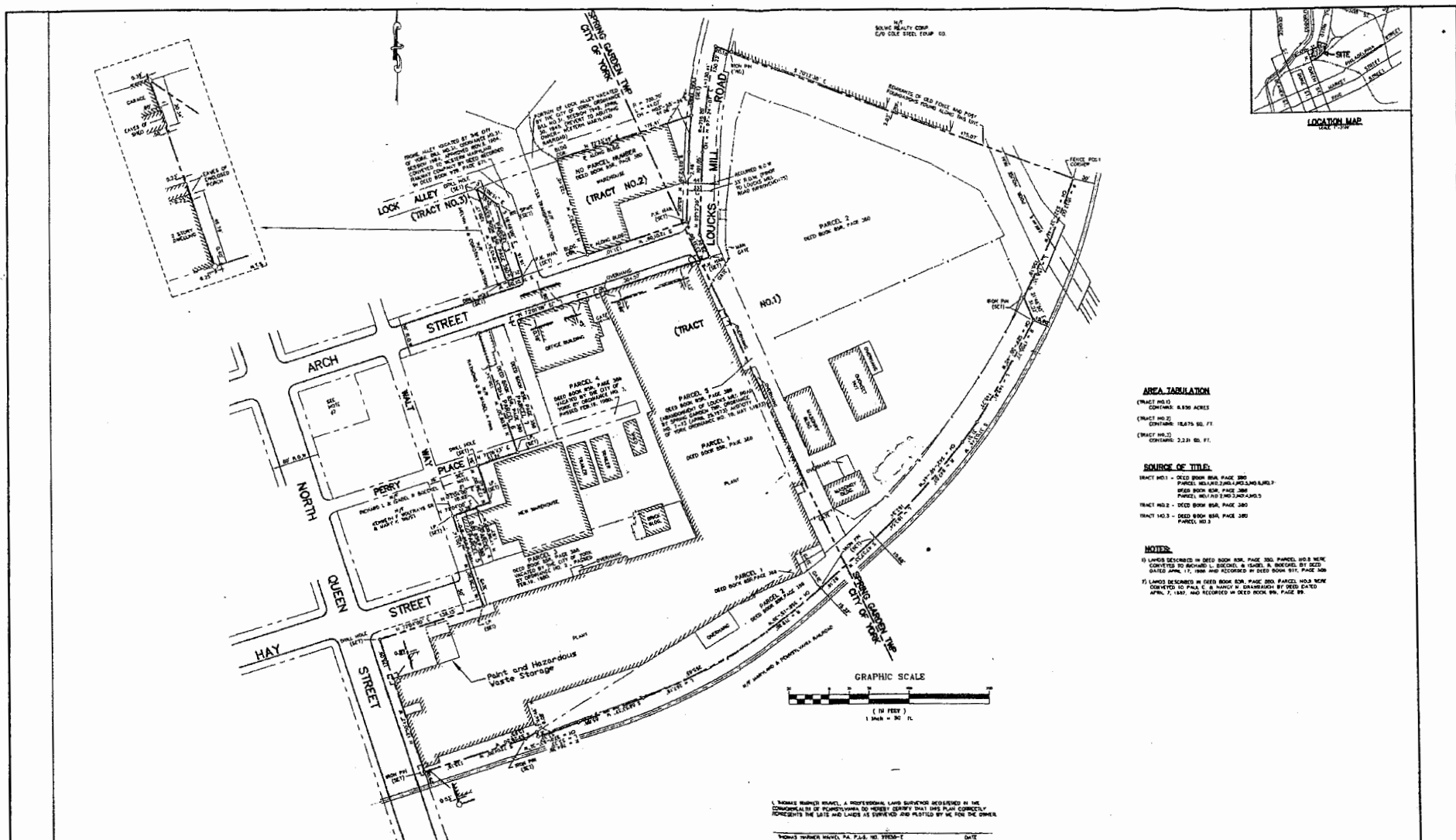
DRAWING INTENT IS TO
INDICATE GENERAL
ARRANGEMENT DESIGN
AND INTENT OF WORK
AND IS PARTLY
DIAGRAMMATIC
DRAWING SHALL NOT
BE USED FOR

DRAWING NO

SHEET NO

PROJECT NO

05500



NOTES:

No Scale
Source : Gilbert Associates 1985

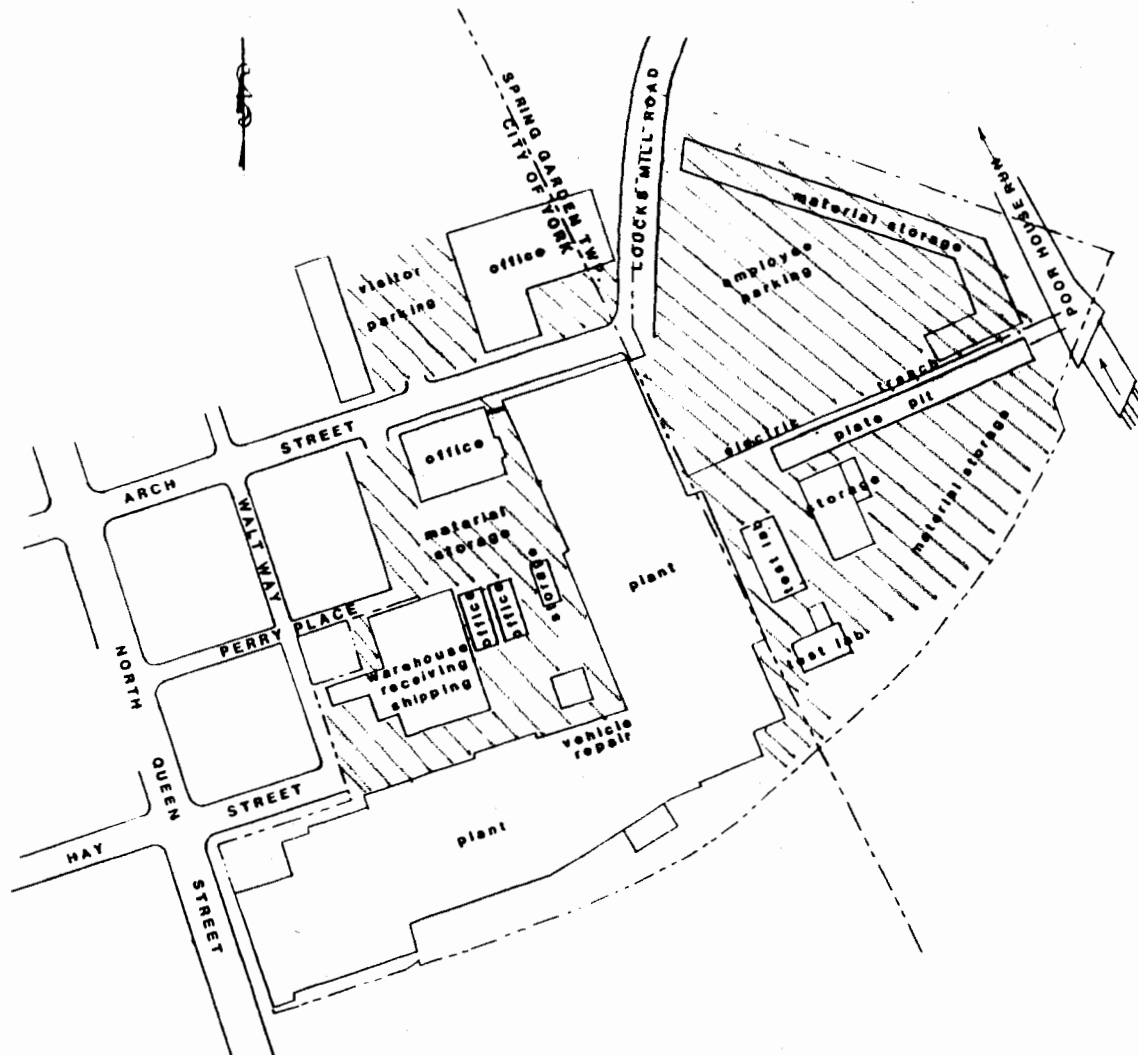
Commonwealth of Pennsylvania
Department of Environmental Protection

METSO MINERALS
YORK, PA


FIGURE 2
SITE LAYOUT MAP



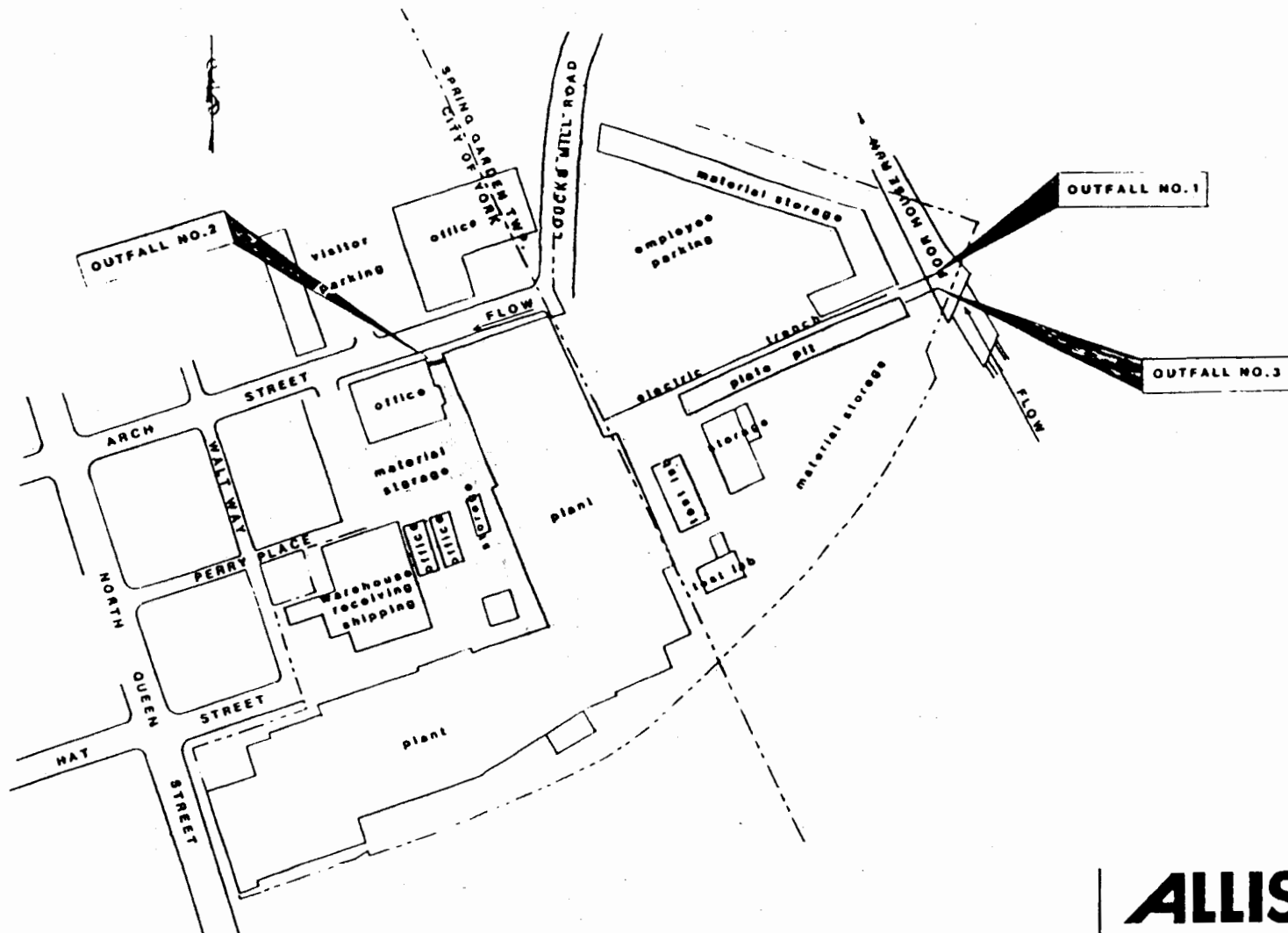
TETRA TECH EC, INC.



LEGEND		
MFG. UNDER ROOF		
MATERIAL STORAGE		
OFFICES		
PAVED AREA		


NO.	REVISIONS						BY	DATE	CK	
THIRD ANGLE PROJ.										
DO NOT SCALE THIS DRAWING										
<p>This document and all information and designs thereon are the property of Mineral Processing Systems, Inc. (MPSI), York, PA. This document is confidential and must not be made public or copied without prior written authorization from MPSI and is subject to return upon demand. No use of this document or any information or designs thereon is permitted except as is specifically authorized in writing by MPSI. Acceptance of possession of this document constitutes full agreement with the above conditions. Copyright © Mineral Processing Systems, Inc., 1984</p>										

ALLIS <small>MINERAL SYSTEMS</small> GRINDING DIVISION		ALLIS MINERAL SYSTEMS GRINDING DIVISION SVEDALA INDUSTRIES, INC. 240 Arch St., P.O. Box 15312 York, PA 17405-7312 USA	
FACILITY SITE PLAN			
DR <i>DRY</i> CK APP.	DT <i>10/92</i> DT. SC.	B	001-1992



LEGEND	
SHEET FLOW	
OUTFALL INFLUENCE	

NO.	REVISIONS	BY	DATE	CK.

THIRD ANGLE PROJ.  **DO NOT SCALE THIS DRAWING**

This document and all information and designs thereon are the property of Mineral Processing Systems, Inc., 240 Arch St., P.O. Box 15312, York, PA. This document is confidential and must not be made public or copied without prior written permission from MP&S and is subject to return upon demand. No use of this document or design thereon is permitted except as is specifically authorized in writing by MP&S. Possession of this document constitutes full agreement with the above conditions.

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ALLIS



MINERAL SYSTEMS

GRINDING DIVISION

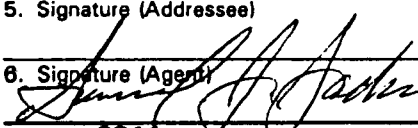
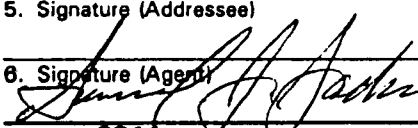
ALLIS MINERAL SYSTEMS
GRINDING DIVISION
SVEDALA INDUSTRIES, INC.
240 Arch St., P.O. Box 15312
York, PA 17405-7312 USA

FACILITY SITE PLAN



DR. <i>DR</i>	DT. <i>10/88</i>	B	001	992
CK.	DT.			
APP.	SC.			

Is your RETURN ADDRESS completed on the reverse side? SENDER: <ul style="list-style-type: none"> • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • Print your name and address on the reverse of this form so that we can return this card to you. • Attach this form to the front of the mailpiece, or on the back if space does not permit. • Write "Return Receipt Requested" on the mailpiece below the article number. • The Return Receipt will show to whom the article was delivered and the date delivered. 		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: Springettsbury Township 1501 MT. Zion Road York, PA 17402		4a. Article Number P 978 881 624	
		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
		7. Date of Delivery 10/20/92	
5. Signature (Addressee) 		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature (Agent) 			
PS Form 3811, December 1991 ☆ U.S.G.P.O.: 1992-307-530 DOMESTIC RETURN RECEIPT			

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side? SENDER: <ul style="list-style-type: none"> • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • Print your name and address on the reverse of this form so that we can return this card to you. • Attach this form to the front of the mailpiece, or on the back if space does not permit. • Write "Return Receipt Requested" on the mailpiece below the article number. • The Return Receipt will show to whom the article was delivered and the date delivered. 		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: CITY OF YORK ONE MARKET WAY YORK, PA 17401		4a. Article Number P 978 881 624	
		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
		7. Date of Delivery OCT 20 1992	
5. Signature (Addressee) 		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature (Agent) 			
PS Form 3811, December 1991 ☆ U.S.G.P.O.: 1992-307-530 DOMESTIC RETURN RECEIPT			

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3. Article Addressed to: COUNTY OF YORK 100 W. MARKET ST., 2nd FLOOR YORK, PA 17401		4a. Article Number P 978 881 627	
		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
		7. Date of Delivery 10-15-92	
5. Signature (Addressee) 		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature (Agent) 			

Thank you for using Return Receipt Service.



October 15, 1992

CERTIFIED MAIL # P 978 881 624

Consulting Engineers
and Planners

Springettsbury Township Board of Supervisors
1501 Mt. Zion Road
York, PA 17402

55 South Richland Avenue
P.O. Box 15055
York, PA 17405-7055
717 843 5561
FAX 717 845 3703

Reference: Svedala Industries, Inc.
Allis Minerals Processing Division
NPDES Permit - Stormwater Discharge
BH No. 65273

Baltimore MD
Cottbus Germany
Frankfurt Germany
Kenner LA
King of Prussia PA
Lancaster PA
Lewisburg PA
Mantion NJ
Memphis TN
State College PA
Williamsburg VA
York PA

Dear Sir/Madam:

In accordance with Act No. 14, P.L. 834, Section 1905-A, we hereby give notice that we plan to submit an application for a NPDES stormwater discharge permit for the referenced facility to the Bureau of Water Quality Management, Pennsylvania Department of Environmental Resources.

The NPDES permit application pertains to stormwater discharges from the Svedala Industries, Inc. facility located in Springettsbury Township and the City of York, York County, Pennsylvania.

Please do not hesitate to contact us if we can be of any assistance.

Very truly yours,

BUCHART-HORN, INC.

A handwritten signature in dark ink, appearing to read 'Daniel J. O'Connell', is written over a horizontal line.

Daniel J. O'Connell
Senior Engineer
Chemistry and Earth Sciences Division

DJO/jls

cc: Svedala Industries, Inc.





October 15, 1992

CERTIFIED MAIL # P 978 881 625

Consulting Engineers
and Planners

55 South Richland Avenue
P.O. Box 15055
York, PA 17405-7055
717 843 5561
FAX 717 843 3703

Baltimore MD

Cottbus, Germany

Frankfurt, Germany

Kenner LA

King of Prussia PA

Lancaster PA

Lebanon PA

Marlton NJ

Memphis TN

State College PA

Williamsburg, VA

York, PA

City of York
City Council
1 Market Way
York, PA 17401

Reference: Svedala Industries, Inc.
Allis Minerals Processing Division
NPDES Permit - Stormwater Discharge
BH No. 65273

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Daniel J. O'Connell
Senior Engineer
Chemistry and Earth Sciences Division

DJO/jls

cc: Svedala Industries, Inc.



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MISC-211-10-151316

A PACE Resources Company



October 15, 1992

CERTIFIED MAIL # P 978 881 627

Consulting Engineers
and Planners

55 South Richmond Avenue
P.O. Box 15055
York, PA 17405-7055
717 843 5561
FAX 717 845 3703

Baltimore MD

Cottbus Germany

Frankfurt Germany

Kenner LA

King of Prussia PA

Lancaster PA

Lewistown PA

Marlton NJ

Memphis TN

State College PA

Williamsburg VA

York PA

County of York
York County Planning Commission
100 W. Market Street, 2nd Floor
York, PA 17401

Reference: Svedala Industries, Inc.
Allis Minerals Processing Division
NPDES Permit - Stormwater Discharge
BH No. 65273

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Daniel J. O'Connell
Senior Engineer
Chemistry and Earth Sciences Division

DJO/jls

cc: Svedala Industries, Inc.



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015C-311-10-15116

A PACE Resources Company

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8. NPDES PERMIT NO. PAR113530, NOVEMBER 1, 2000-NOVEMBER 1, 2005

PROVIDED BY: PADEP

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER QUALITY MANAGEMENT

4
renewal

APPROVAL OF COVERAGE UNDER
THE NPDES STORM WATER GENERAL PERMIT (PAG-3) FOR DISCHARGES
OF STORM WATER FROM INDUSTRIAL ACTIVITIES

NPDES PERMIT NO: PAR113530

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 et seq. (the "Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 et seq., the Department of Environmental Protection hereby approves the Notice of Intent (NOI) submitted for coverage by:

Svedala Industries, Inc.
240 Arch Street, PO Box 15312
York, PA 17405

Spring Garden Township, York County

to discharge storm water to Poor House Run in Watershed 7-H.

subject to the Department's enclosed PAG-3 which incorporates all effluent limitations, monitoring and reporting requirements and other terms, conditions, criteria and special requirements for the discharge of storm water from point sources composed entirely of storm water associated, in whole or in part, with industrial activity, as defined in this General Permit, to surface waters of the Commonwealth, including to municipal separate storm sewers and non-municipal separate storm sewers.

All monitoring requirements specified in the Appendix J on page 35 of this general permit apply to this discharge. The enclosed discharge monitoring report (DMR) must be kept on site or submitted to the Department as specified in the permit.

APPROVAL FOR COVERAGE TO DISCHARGE UNDER THIS GENERAL NPDES PERMIT
SHALL COMMENCE 11/01/2000, SHALL EXPIRE AT MIDNIGHT 11/01/2005,
UNLESS EXTENDED IN WRITING BY THE DEPARTMENT.

COVERAGE APPROVAL DATE: October 20, 2000

**FOR A COPY OF THE
COMPLETE GENERAL
PERMIT/PAG-3**

**PLEASE SEE THE FILE
REVIEW CLERK**

**OR COME TO THE
PERMITS SECTION**

**(GP3 SIGNED BY DANIEL DRAWBAUGH
ON 11/4/1995)**

RECEIVED
SEP 28 2000
DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER QUALITY PROTECTION

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PA R113530

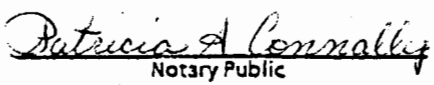

**PENNSYLVANIA NOTICE OF INTENT (NOI) FOR COVERAGE UNDER
NPDES GENERAL PERMIT FOR DISCHARGES OF STORM WATER
ASSOCIATED WITH INDUSTRIAL ACTIVITIES, INCLUDING GROUP APPLICANTS
(PLEASE CAREFULLY READ ATTACHED INSTRUCTIONS BEFORE COMPLETING THIS APPLICATION)**

A. APPLICANT / OPERATOR NAME: SVEDALA INDUSTRIES, INC.		B. FACILITY NAME (IF APPLICABLE): SVEDALA INDUSTRIES, INC. GRINDING DIVISION	
TELEPHONE NO.: 717-843-8671		TELEPHONE NO.: 717-843-8671	
MAILING ADDRESS: 240 ARCH STREET P. O. BOX 15312 YORK, PA 17405		MAILING ADDRESS: 240 ARCH STREET P. O. BOX 15312 YORK, PA 17405	
C. FACILITY LOCATION: County: YORK Municipality: YORK CITY SPRING GARDEN TWP.			
D. EXISTING PERMITS: Include Earth Disturbance permits, NPDES permits or any other environmental quality permits issued by DEP or EPA.			
Type of Permit	Permit No.	Date Issued	Issued By
NA			
E. OPERATOR STATUS: OWNER ONLY <input type="checkbox"/> OPERATOR ONLY <input type="checkbox"/> CO-PERMITTEE <input type="checkbox"/> OWNER/OPERATOR <input checked="" type="checkbox"/>			
F. FACILITY STATUS: FEDERAL <input type="checkbox"/> STATE <input type="checkbox"/> PRIVATE <input checked="" type="checkbox"/> PUBLIC <input type="checkbox"/> OTHER <input type="checkbox"/> Please explain: _____			
G. SIC CODE(S) (4-digit): 3532 NA EPA Group #: _____			
H. FACILITY DESCRIPTION: Provide a brief summary of the industrial activities performed at the facility and attach a site map or sketch (8.5X11 or any other larger size) to the application. Locate each outfall, indicate the drainage area served by each outfall, indicate direction of storm water flow within the drainage area. Reference attached description.			
I. SITE LOCATION AND DRAINAGE MAP: Locate the facility on a U.S.G.S. topographical map, and provide location measurements in terms of latitude and longitude and/or inches North and inches West to the approximate center of the site from the lower right corner of the U.S.G.S. quadrangle map.			
LATITUDE 39 / 58' / 55"		N3952.5 inches North	
LONGITUDE 76 / 43' / 31"		W7637.5/7.5 inches West	
U.S.G.S. QUAD NAME: York Quadrangle 1932			

Outfall Number or Name	Outfall Location	Discharged To:	Total Acreage Drained (sq. ft.)	Type of Area Drained	Appropriate Runoff Coefficient		Volume of Storm Water
					0.5	0.9	
#1	Reference Plot Plan and attached outfall descriptions	Poor House Run To Codorus Creek.	1/4 Acre	Roof Parking Lot Electrical Trench		0.9	98 * cu ft/day
#2	Reference Plot Plan and attached outfall descriptions.	York City Storm Sewer to Codorus Creek.	1/2 Acre	Roof Service Road Parking Lot.		0.9	197 * cu ft/day
#3 **	Reference Plot Plan and attached outfall descriptions	Poor House Run To Codorus Creek	1/10 Acre	Material Storage		0.9	39 * cu ft/day
**	Does not exist as of 10/97, See Section J						

Outfall Number or Name	Receiving Water	Chapter 93 Classification	Special Protection Water?
#1	Poor House Run to the Codorus Creek	WWF	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
#2	York City Storm Sewer Collection System to the Codorus Creek.	WWF	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/>
#3	Poor House Run to the Codorus Creek.	WWF	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/>

[illegible]

M. POTENTIAL POLLUTANT SOURCES: Do you know or have reason to believe that water priority chemicals/pollutants are discharged or may be discharged through one or more of the storm water discharge outfalls covered in this application. Use a separate sheet if necessary.		YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Did you report to EPA under SARA Title III, Section 313 facility reporting requirements last year?		YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>
Will you use, generate, store, process or dispose chemicals, solvents, or other hazardous wastes at the facility that may result in a storm water discharge?		YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
A PPC Plan, consistent with the regulations at 25 Pa. Code § 101.3, must be completed and maintained on-site and implemented.		
DESCRIPTION OF CONTROL MEASURES: Summarize any existing structural and nonstructural control measures used to reduce pollutants in the storm water runoff. <u>Use separate sheets as necessary.</u>		
SEE ATTACHMENT		
DESCRIPTION OF LEAKS OR SPILLS: Summarize any significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released. In addition, describe the steps taken to avoid such leaks or spill in the future. <u>Use separate sheets as necessary.</u>		
NONE		
N. FACILITY IMPROVEMENTS. Summarize any improvements currently underway, and/or planned, and give an estimated schedule of completion. <u>Use separate sheets as necessary.</u>		
NONE		
O. CERTIFICATION:		
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further acknowledge that the facility described hereinabove is eligible for coverage under the Department's general permit for storm water discharges associated with industrial activities and that the best management practices, pollution prevention plans, and other control measures are designed, installed and maintained in accordance with the general permit requirements and in compliance with the state water quality standards. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		
NAME AND OFFICIAL TITLE: (Use corporate or professional seal as appropriate) KORLAN B. STRAYER OPERATIONS MANAGER		Sworn and subscribed to before me; This <u>21st</u> day of <u>September</u> , <u>2000</u>  Notary Public
SIGNATURE: 	DATE SIGNED: <u>9/21/00</u>	My commission expires <u>1/6/2003</u> (Notary Public Seal and Stamp)

SECTION H – FACILITY DESCRIPTION

- Svedala Industries, Inc. is the manufacturer of size reduction equipment for the mining and industrial minerals industry.

This facility is primarily a large fabrication and machine shop which employs the manufacturing processes of burning/cutting of steel plate, forming, welding, machining, and assembly of products known as Ball Mills, Sag Mills, Conical Ball Mills, Vertimills, etc.

- Svedala Industries, Inc. does not store, treat, or dispose of hazardous materials at this facility, but we do contract a local company to spray weed killer around all the fences that border our property, one time per year.

SECTION J – OUTFALL INFORMATION

- Facility site Plan B001-1992 indicates the manufacturing area under roof, material storage area, office area, and paved area.
- Facility site Plan B002-1992 indicates outfall influence areas, and sheet flow.
- Outfall No. 1 consists of a long narrow concrete trench which houses the electrification for our outdoor Gantry Crane. It receives storm water from a portion of the manufacturing roof as well as some from our employee parking lot. Water flows from the trench into Poor House Run and subsequently to the Codorus Creek.
- Outfall No. 2 is a small grated trench which collects water from our service road, some material storage area, and a portion of our manufacturing roof. The water is discharged onto Arch St. at one location, which eliminates a large sheet flow onto Arch. St., during heavy rains. Water from this area flows down Arch Street, into the City's storm sewer system and subsequently to the Codorus Creek.
- ** Outfall No. 3 consists of a large concrete pit in which we store our large sheets of plate steel prior to being used in the production of our equipment. The outfall from this area is the result of a drain located at the end of the pit. Water flows from the pit into Pour House Run and subsequently flows to the Codorus Creek.
- ** Outfall #3 (Plate Pit) area was closed off and no longer exists as of October 1997.

SECTION M – CONTROL MEASURES

- Svedala Industries, Inc. does have in place a PPC Plan which indicates the spill prevention and clean-up procedures as well as the persons responsible for this activity.
- All potential hazardous material are stored under cover in buildings which eliminates coming in contact with storm water with the exception of our NO. 2 fuel oil used for some of our material handling equipment. This product is stored outside within a secondary concrete containment area. In the event that there would be a leak in one of the two 275 gallon tanks the product would be contained and unable to flow into any storm sewer system.



SCALE 1"=24,000'

PENNSYLVANIA
QUADRANGLE LOCATION

YORK QUADRANGLE
PENNSYLVANIA - YORK CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

ENGR / ARCH
DESIGN BY
DRAWN BY
CHECK BY
DATE

**BUCHART
HORN, INC.**

Consulting Engineers and Planners

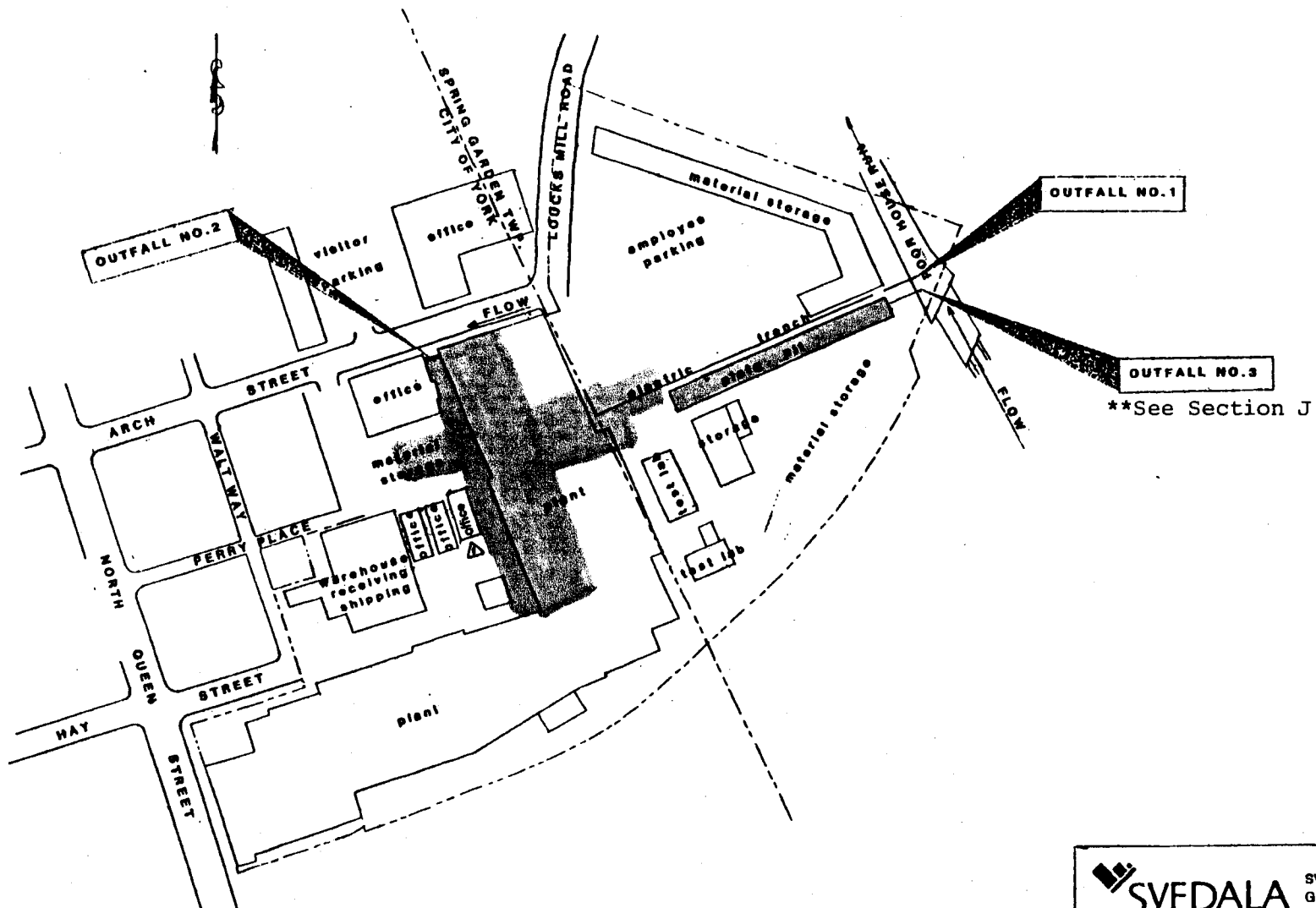
**SITE LOCATION
& SURROUNDING VICINITY
SVEDALA, INC.**

DRAWING INTENT IS TO
INDICATE GENERAL
ARRANGEMENT, DESIGN
AND INTENT OF WORK
AND IS PARTLY
DIAGRAMMATIC
DRAWING SHALL NOT
BE SCALED

DRAWING NO

SHEET NO

PROJECT NO
65564



LEGEND					
SHEET FLOW					
OUTFALL INFLUENCE					
		NO.	REMOVED STORAGE, ADDED OFFICE	BY	DATE
			REVISIONS	CK.	
		THIRD ANGLE PROJ.			

This document is the property of Svedala Industries, Inc., York, PA. It is to be returned to the originator upon demand. No use of this document or any information or design is to be made without the written approval of Svedala Industries, Inc.

DO NOT SCALE THIS DRAWING

Information and designs thereon are the property of Svedala Industries, Inc., York, PA. It is to be returned to the originator upon demand. No use of this document or any information or design is to be made without the written approval of Svedala Industries, Inc.



SVEDALA
GRINDING DIVISION

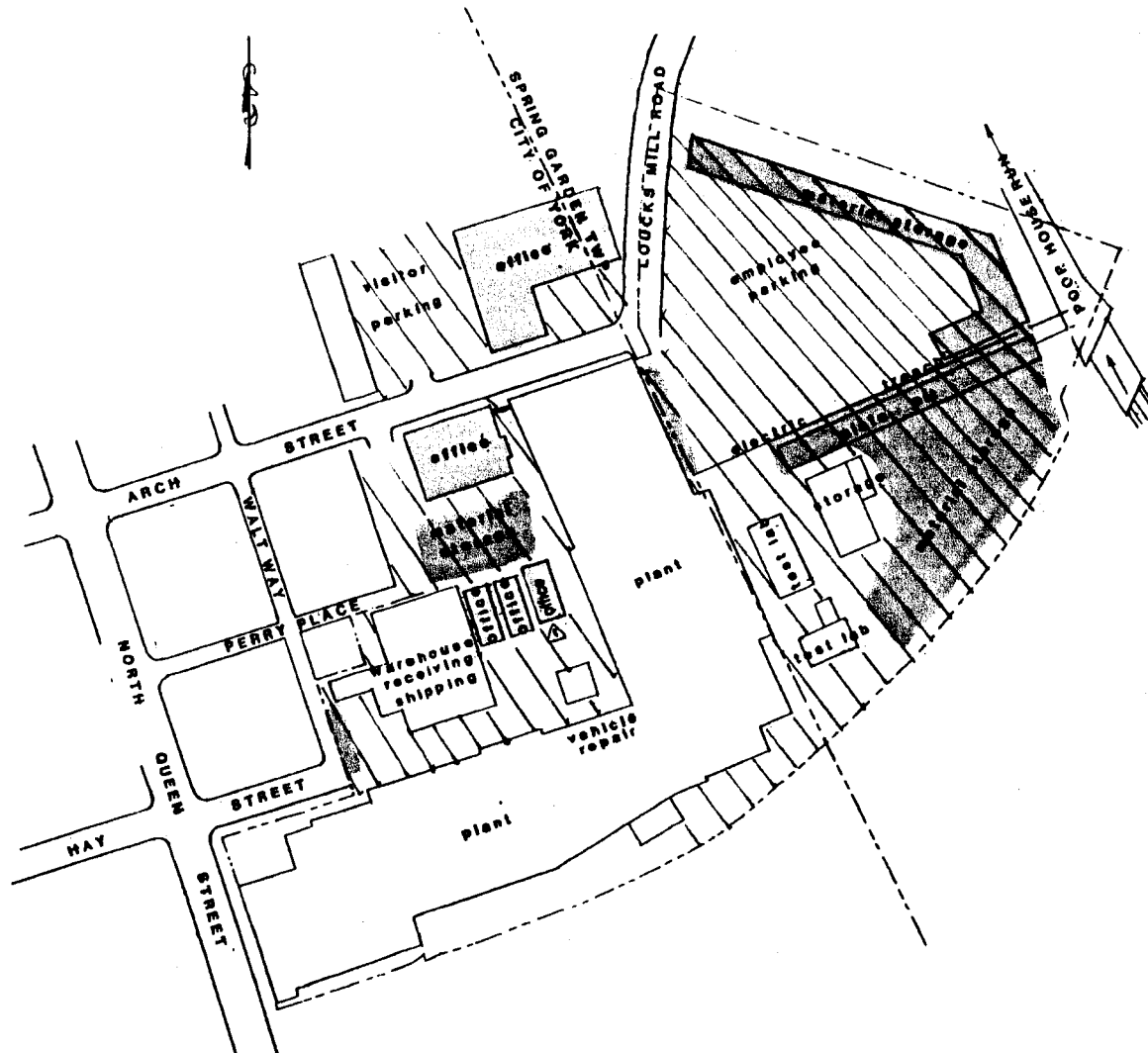
SVEDALA INDUSTRIES
GRINDING DIVISION
240 Arch St., P.O. Box 15312
York, PA 17405-7312 USA

FACILITY SITE PLAN

DR 287 DT. 10/92
CK. DT.

B

00-1992



LEGEND	
MFG. UNDER ROOF	
MATERIAL STORAGE	
OFFICES	
PAVED AREA	

SVEDALA GRINDING DIVISION		SVEDALA INDUSTRIES GRINDING DIVISION 240 Arch St., P.O. Box 15312 York, PA 17405-7312 USA	
		FACILITY SITE PLAN	
DR 287 CK APP.	DT 10/92 DT. SC.	B	001-1992

**SIMPLIFIED APPLICATION
FOR RENEWAL OF
NPDES STORMWATER DISCHARGE
ASSOCIATED WITH INDUSTRIAL ACTIVITY**

**SVEDALA INDUSTRIES, INC.
GRINDING DIVISION**

**240 ARCH STREET
P. O. BOX 15312
YORK, PA 17405**

SEPTEMBER 15, 2000

RECEIVED
SEP 28 2000
DEP - SC - CENTRAL REGION
WATER MANAGEMENT PROGRAM

TABLE OF CONTENTS

SECTION 1	APPLICATION
SECTION 2	APPLICATION SUPPORT DOCUMENTATION
SECTION 3	USGS QUADRANGLE MAP
SECTION 4	FACILITY SITE PLANS
SECTION 5	ACT 14 – MUNICIPAL AND COUNTY GOVERNMENT NOTIFICATION AND RECEIPT

PAR113530



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
PERMIT APPLICATION – GENERAL INFORMATION

FILE COPY

Before completing this form, read the step-by-step instructions provided in this Permit Application Package. This version of the General Information Form (GIF) must be completed and returned with any program-specific application.

SECTION A. PROJECT INFORMATION			
Project Name	PAR 113530		
Project Description	STORMWATER PERMIT RENEWAL		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED SEP 26 2000 DEP - SOUTHCENTRAL REGION WATER MANAGEMENT PROGRAM </div>			
Time Schedules	Project Milestone (Optional)		
Will your project involve the disturbance of any primary agricultural lands? If "yes", indicate the alternatives to this disturbance considered and the reasons they were not deemed feasible.			
<input type="checkbox"/> No	Alternative Considered		Reason Not Feasible
<input type="checkbox"/> Yes	1. 2. 3.		
Will your project require any Commonwealth funds or Commonwealth-administered federal funds? If "yes", indicate the type, amount, and source of these funds.			
<input type="checkbox"/> No	Type	Amount	Source
<input type="checkbox"/> Yes	1. \$ 2. \$ 3. \$		

SECTION B. APPLICANT INFORMATION						
DEP Client ID# PAR 113530		Applicant Type / Code NPACO				
Organization Name or Registered Fictitious Name SVEDALA INDUSTRIES, INC.			Employer ID# (EIN) 39-1599801		Dun & Bradstreet ID# 18-284-6063	
Individual Last Name	First Name	MI	Suffix	SSN		
Additional Individual Last Name	First Name	MI	Suffix	SSN		
Mailing Address Line 1 240 ARCH STREET		Mailing Address Line 2				
Address Last Line - City YORK		State PA	ZIP+4 17403-1410	Country USA		
Applicant Contact Last Name SMITH	First Name DAVID	MI P.	Suffix	Phone 717-849-2621	Ext	
Applicant Contact Title MANAGER, INDUSTRIAL SERVICES	Email	FAX 717-845-5154				
SECTION C. SITE INFORMATION						
Estimated Number of Applicant Employees to be Present at Site						
<input type="checkbox"/> 1-4	<input type="checkbox"/> 5-9	<input type="checkbox"/> 10-19	<input type="checkbox"/> 20-49	<input type="checkbox"/> 50-99	<input type="checkbox"/> 100-249	<input checked="" type="checkbox"/> 250-499 <input type="checkbox"/> 500+
DEP Site ID# PAR 113530		Site Name SVEDALA INDUSTRIES, INC.				
Site Location Line 1 240 ARCH STREET		Site Location Line 2				
Site Location Last Line - City YORK		State PA	ZIP+4 17403-1410	EPA ID# PAD 004382453		
Detailed Written Directions to Site From Harrisburg, PA, travel south on RT. 83 to Exit 9E, travel east on Route 30 to second traffic light, turn right onto Loucks Mill Rd., travel approx. (1) mile to Arch St. Facility located on corner of Loucks Mill Rd. and Arch Street.						
Description of Site SEE ATTACHMENT - SECTION H						
County Name YORK	Municipality YORK	City <input checked="" type="checkbox"/>	Boro <input type="checkbox"/>	Twp <input type="checkbox"/>	State PA	
County Name YORK	Municipality SPRING GARDEN	City <input type="checkbox"/>	Boro <input type="checkbox"/>	Twp <input checked="" type="checkbox"/>	State PA	
Site Contact Last Name SMITH	First Name DAVID	MI P	Suffix	Phone 717-849-2621	Ext	
Site Contact Title MANAGER, INDUSTRIAL SERVICES	FAX					
Site Contact Firm SVEDALA INDUSTRIES, INC.	Email					
Mailing Address Line 1 240 ARCH STREET		Mailing Address Line 2				
Mailing Address Last Line - City YORK		State PA	ZIP+4 17403-1410			
Applicant to Site Relationship OWNOP		If "Other" - Explain				
SIC Codes (Two-Digit Codes - List All That Apply)					(Optional: 4-Digit Code) 3532	

N/A

SECTION D. PERMIT COORDINATION				
QUESTION	ANSWER			DE. Use
	Yes	No	Additional Information Due to "Yes" Response	
1.1 Will the project involve construction activity that disturbs five or more acres of land? If "Yes", specify total disturbed acreage. <i>Note: If more than 10 acres are disturbed, it is the applicant's responsibility to also notify the PA Historical and Museum Commission, PO Box 1026, Harrisburg, PA 17108-1026, Telephone (717) 787-3362.</i>	<input type="checkbox"/>	<input type="checkbox"/>	Total Disturbed Acreage:	4x66
1.2 Is a stormwater collection and discharge system proposed for this project?	<input type="checkbox"/>	<input type="checkbox"/>		4x66
1.3 Will any work associated with this project take place within 50 feet of a stream, waterway, or wetland; or is located in a FEMA delineated floodway? If "Yes", identify the stream, waterway, or wetland.	<input type="checkbox"/>	<input type="checkbox"/>	Stream: Waterway: Wetland:	4x66
1.4 Does the project involve dredging or construction of any structure or placement of fill that encroaches on a stream, floodplain, or wetland? If "Yes", check the appropriate item(s).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Dredging <input type="checkbox"/> Bridge or Culvert Construction <input type="checkbox"/> Pier Construction <input type="checkbox"/> Outfall Pipe Construction <input type="checkbox"/> Other:	4x66
2.1 Will the project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in Project Description.	<input type="checkbox"/>	<input type="checkbox"/>	(Discuss in Section A, Project Description.)	4x62
2.2 Will the project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	<input type="checkbox"/>		4x62
2.3 Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/ name of downstream sewage facilities in the Project Description, where applicable.	<input type="checkbox"/>	<input type="checkbox"/>	Est Prop Flow (gal/day): (Discuss in Section A, Project Description.)	4x62
3.1 Will land be subdivided for this project?	<input type="checkbox"/>	<input type="checkbox"/>		4x61
3.2 Will the proposed generate sewage? If "Yes", indicate estimated flow (gal/day). If "Yes", indicate number of persons to be served. If "Yes", attach Act 537 approval letter. If "Yes", sewage will be treated by (check appropriate item/box).	<input type="checkbox"/>	<input type="checkbox"/>	Est Flow (gal/day): Persons Served: Treated by: <input type="checkbox"/> On-Site Soils System <input type="checkbox"/> On-Site Treatment Plant <input type="checkbox"/> Conveyed to Off-Site Trmt Plt	4x61
3.3 If sewage planning was submitted and approved, indicate project name or code.			Proj Name/Code:	4x61
4.1 Does the project involve construction of a dam? If "Yes", identify the dam.	<input type="checkbox"/>	<input type="checkbox"/>	Dam:	3140
4.2 Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam.	<input type="checkbox"/>	<input type="checkbox"/>	Dam:	3140

SECTION D. PERMIT COORDINATION (continued)

QUESTION	ANSWER			DEP Use
	Yes	No	Additional Information Due to "Yes" Response	
5.1 Will the project involve operations, excluding during the construction period, that produce air emissions (i.e., NOX, VOC, etc.)? If "Yes", identify the type and amounts of emissions.	<input type="checkbox"/>	<input type="checkbox"/>	<u>Type</u> <u>Amount</u>	4x71
6.1 Is an on-site drinking water supply (well), other than individual house wells, proposed for your project? If "Yes", indicate total number of people served and/or the total number of connections served, if applicable. And check all proposed sub-facilities.	<input type="checkbox"/>	<input type="checkbox"/>	Persons Served: Emp/Guests: Connections: Sub-Facilities: <input type="checkbox"/> Distribution Sys <input type="checkbox"/> Source <input type="checkbox"/> Entry Point <input type="checkbox"/> Storage Fac <input type="checkbox"/> Water Trmt Plt <input type="checkbox"/> Pump Sta <input type="checkbox"/> Transmission Main	4x81
6.2 If purchasing your water in bulk, excluding during the construction period, name the provider. Also, indicate the daily number of employees or guests served.	<input type="checkbox"/>	<input type="checkbox"/>	Provider: Emp/Guests:	4x81
6.3 If to be served by public water supply, indicate name of supplier and attach letter from supplier stating that it will serve the project.	<input type="checkbox"/>	<input type="checkbox"/>	Supplier:	4x81
6.4 Will this project involve a new or increased drinking water withdrawal from a stream or other water body? If "Yes", provide name of stream.	<input type="checkbox"/>	<input type="checkbox"/>	Stream:	4x81
7.1 Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type, (i.e., hazardous, municipal, residual, infectious & chemotherapeutic) and how much. What are the proposed means of treatment, storage, reuse and disposal?	<input type="checkbox"/>	<input type="checkbox"/>	<u>Type</u> <u>Amount</u> <u>Means</u> <input type="checkbox"/> Treated <input type="checkbox"/> Stored <input type="checkbox"/> Reused <input type="checkbox"/> Disposed	4x32
8.1 Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities?	<input type="checkbox"/>	<input type="checkbox"/>		48y1
9.1 Will your project involve operations within 200 feet of an oil or gas well? If "Yes", indicate Oil and Gas API#.	<input type="checkbox"/>	<input type="checkbox"/>	API#:	4x41
10.1 Does your project involve installation of any of the following? If "Yes", list Substance & Capacity; may need a Storage Tank Site Specific Installation Permit. • A field constructed underground storage tank? • An aboveground storage tank greater than 21,000 gallons capacity? • A tank greater than 1,100 gallons which will contain a highly hazardous substance? • A storage tank at a new facility?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<u>Substance</u> <u>Capacity</u>	3930

SECTION E. FACILITY INFORMATION

Application Type

☐ New ☒ Renewal ☐ Modification ☐ Transfer ☐ Other-

Modification of Existing Facility

Yes No

1. Will this project modify an existing facility, system, or activity?

☐ ☐

2. Will this project involve an addition to an existing facility, system, or activity?

☐ ☐

If "Yes", check all relevant facility types and provide DEP facility identification numbers below.

FACILITY TYPE	DEP FAC ID#	FACILITY TYPE	DEP FAC ID#
<input type="checkbox"/> Air Emission Source		<input type="checkbox"/> Public Water Supply System	
<input type="checkbox"/> Hazardous Waste Facility		<input type="checkbox"/> Water Resource (withdrawal point)	
<input type="checkbox"/> Municipal or Residential Waste Facility		<input type="checkbox"/> Oil & Gas Location	
<input type="checkbox"/> Mining Operation		<input type="checkbox"/> Oil & Gas Location / Coal Pillars	
<input type="checkbox"/> Dam		<input type="checkbox"/> Radiation Protection Facility	
<input type="checkbox"/> Water Obstruction or Encroachment		<input type="checkbox"/> Other -	
<input type="checkbox"/> Water Pollution Control Facility		<input type="checkbox"/> Other -	

Latitude	DEG	MIN	SEC	Longitude	DEG	MIN	SEC
----------	-----	-----	-----	-----------	-----	-----	-----

SECTION F. CONSULTANT FOR THIS PROJECT

Last Name	First Name	MI	Suffix
Title		Consulting Firm	
Mailing Address Line 1		Mailing Address Line 2	
Address Last Line - City		State	Country
Email		Phone	Ext FAX

SECTION G. CERTIFICATION

I certify that I have the authority to submit this Permit Application on behalf of the applicant named herein and that the information provided in this Application is true and correct to the best of my knowledge and information.

Signature	Date
KORLAN B. STRAYER	9/2/00
Type or Print Name	OPERATIONS MANAGER

RECEIVED
DEP-0201
WATER AND LAND

PAID
Date 10/5/2000
Amount \$100-
No. 1022698
048047622

SVEDALA



RECEIVED
SEP 28 2000
DEP - SOUTHATLANTIC REGION
WATER POLLUTION CONTROL DIVISION

September 14, 2000

Ms. Brenda Esterline
Bureau of Water Quality Management
Pennsylvania Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

Reference: Svedala Grinding – York, PA
Renewal Application for Stormwater
Permit Number PAR 113530

Dear Ms. Esterline:

Enclosed please find one copy of the renewal application (General Permit) for our stormwater discharges. Our current stormwater permit number is PAR 113530. I have also enclosed the completed General Information Form (GIF) per your request. Additionally, enclosed is a check for \$100.00, made payable to the Commonwealth of Pennsylvania, for the applicable filing fee.

Thank you again for assisting with completing this renewal application. Your efforts and guidance is greatly appreciated.

If you have any questions or require additional information, please contact me at (717) 849-2621.

Sincerely,

A handwritten signature in black ink, appearing to read 'David P. Smith'.

DAVID P. SMITH
MANAGER, INDUSTRIAL SERVICES

ENCLOSURES

Svedala Grinding Division
Svedala Industries, Inc.

240 Arch St., P.O. Box 15312, York, PA 17405-7312 USA

C

C

C

**9. FORM T3, STATUS AND DESCRIPTION NOTICE FOR RESIDUAL WASTE
STORAGE OR DISPOSAL IMPOUNDMENT, DECEMBER 15, 1992**

PROVIDED BY: PADEP

ALLIS

MINERAL SYSTEMS

December 15, 1992

Commonwealth of Pennsylvania
Department of Environmental
Resources
Department of Waste Management
One Ararat Boulevard
Harrisburg, PA 17110

Attention: Mr. Anthony Rathfon

Dear Mr. Rathfon:

Please find enclosed two copies of our FORM T3, STATUS
AND DESCRIPTION NOTICE for Residual Waste Storage or
Disposal Impoundment.

Hopefully, everything will be to your satisfaction.

If you should have any questions, please do not
hesitate to contact us.

Very truly yours,



Korlan B. Strayer
Manufacturing Manager

KBS/pac

ENCLOSURES

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ATTACHMENT A - PROCESS SCHEMATIC DRAWING
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- MODULE 1 ANALYSIS - 12/12/91

SECTION IV.....ATTACHMENT D - ANALYTICAL NATIVE SOIL RESULTS

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised

11/11/92

LD Number

FORM T3
STATUS AND DESCRIPTION NOTICE
FOR

RESIDUAL WASTE STORAGE OR DISPOSAL IMPOUNDMENT

General Reference: 287.111

Instructions: Effective July 4, 1992 all residual waste impoundments are required to complete this form and submit it to the Department. An impoundment is a facility or part of a facility which is a natural topographic depression, man-made excavation, or diked area formed primarily of earthen materials although it may be lined with synthetic materials and which is designed to hold an accumulation of liquid wastes or wastes containing free liquids. The term includes holding, storage, treatment, settling and aeration pits, ponds and lagoons. The completed form is to be submitted to the Department by January 4, 1993.

For each of the following items, please provide the information required under Section 287.111 as listed below. The information should be attached on separate 8-1/2 x 11 sheets of paper. Be sure to identify as **STATUS AND DESCRIPTION NOTICE FOR RESIDUAL WASTE STORAGE OR DISPOSAL IMPOUNDMENT** and to which item the information applies. A separate form must be submitted for each impoundment.

Submit two copies of the completed form to the Department's applicable Regional Office for each impoundment. Additional copies may be requested by the Department.

Allis Mineral Systems, A Division of

Owners Name: Svedala Industries, Inc.Telephone Number: 717-843-8671Mailing Address: P.O. Box 15312Taxpayer ID Number: 39-1599801240 Arch StreetYork, PA 17405

Facility (Name and address):

Allis Mineral Systems, A Division ofSvedala Industries, Inc.P.O. Box 15312240 Arch StreetYork, PA 17405

Type Impoundment:

☒ Storage☐ Disposal

Last Solids Cleanout Date:

June 1992

Annual Rate of Solid Accumulation:

48"

Depth in Inches

Permit ID Number:

BWM N/ABWQC N/A

Other _____

Date issued: _____

Clean Out Frequency:

Annually

Size of Impoundment:

.062 acres

Contents: (As a minimum the following information must be submitted as part of this notice.)

1. A statement of whether the operator plans to file a permit application consistent with this Article or a closure plan consistent with this Article, or, for storage impoundments, whether the operator plans to upgrade a storage impoundment to comply with this article as part of a permit under the Clean Streams Law. Section 287.111(b)(7).
2. A brief description of the type and weight or volume of waste being processed, stored, or disposed annually at the impoundment, the type and weight or volume of waste previously processed, stored, or disposed at the impoundment, and the process that generated the waste. Section 287.111(b)(1).
3. A brief description of the impoundment, including size and capacity, and the number, type, and design of any liners that are placed at the impoundment. Section 287.111(b)(2).

FORM T3

--

4. For each type of waste stored, processed, or disposed at the impoundment, an analysis of the waste that meet the requirements of Section 287.132 (relating to chemical or leaching analyses) that have been performed on the waste.
5. A description of any leachate collection and treatment systems at the impoundment. Section 287.111(b)(4).
6. The results of surface water or groundwater monitoring, sampling, and analysis that have been performed for the impoundment. Section 287.111(b)(5).
7. A description of the manner in which solid materials are managed in the impoundment, including the frequency of solids removal, the frequency with which the impoundment is emptied, and an estimate of the volume of solids removed from the impoundment annually. Section 287.111(b)(6)(i).
8. A statement of whether the facility is a storage impoundment or a disposal impoundment under Section 299.113 (relating to duration of storage), including data or information to support the statement. Section 287.111(b)(6)(ii).
9. For existing storage and disposal impoundments, a bond as outlined in Section 287.312.
10. Except for residual waste storage impoundments, a water quality monitoring plan that meets the requirements of this article. The plan shall include at least one quarter of data, which does not need to be higher than local groundwater levels. Groundwater monitoring data for each subsequent quarter shall be submitted to the Department as soon as the data is available. An operator of a residual waste storage impoundment shall submit a water quality monitoring plan that meets the requirements of this article with this notice.
11. A description of the types of actual or potential air emissions from the facility. Section 287.111(b)(10).
12. A statement of whether the facility is covered by any other permit issued under this Act or the environmental protection acts, and the type of permit, permit number, and issuing agency, if applicable. Section 287.111(b)(11).
13. If the facility was not permitted under the Act or the Clean Streams Law on the effective date of these regulations, information showing whether the siting of the facility is prohibited by Sections 289.422, 289.522 or 299.144(a)(8), whichever is applicable. Section 287.111(b)(12).
14. Information on solids accumulated in the impoundment to include: annual rate of solids accumulation, cleanout frequency, when last cleaned out, the amount removed and how disposed.

FORM T3

Certification of Owner/Operator

This is to certify that I have personally examined and am familiar with the information submitted in this and all attached documents. I am aware of the Department of Environmental Resources' requirements for this facility. To the best of my knowledge, information, and belief, the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

Name Korlan B. StrayerTitle Manufacturing ManagerSignature Affiliation Allis Mineral SystemsDate December 17, 1992Address P. O. Box 15312, 240 Arch St.
York, PA 17405Telephone No. 717-843-8671

**ATTACHMENT TO FORM T3
STATUS AND DESCRIPTION NOTICE
FOR
RESIDUAL WASTE STORAGE OR DISPOSAL IMPOUNDMENT**

**OWNER - SVEDALA INDUSTRIES, INC.
240 ARCH STREET
YORK, PENNSYLVANIA**

TYPE IMPOUNDMENT - STORAGE

The following information corresponds to the numbered "contents" found on Page 1 and 2 of Form T3.

1. Svedala Industries, Inc., plans to submit a closure plan consistent with this article. The requirement for the storage lagoon will be eliminated by a dewatering system currently being designed.
2. Allis Mineral Systems Grinding Division, Svedala Industries, Inc., is the leading manufacturer of size reduction equipment for the mining and industrial minerals industries. Their product line consists of Ball, Rod, Pebble, Autogenous, Semi-Autogenous, and Verti-Mills. This equipment reduces the particle size of ores, industrial minerals, etc. to prepare them for downstream processes.

In order to design and size the equipment which is supplied by Svedala Industries, Inc., some basic design information is required. In order to obtain this information, it is common to have potential clients send samples of the materials for physical testing, mainly as to hardness or resistance to grinding. These samples may consist of a few pounds to several hundred tons. The samples are run through lab size equipment where water may be added to aid the grinding process. (No other chemicals are added.) The particle size of the material is reduced in the grinding mill, but no effort is made to effect any chemical change to the materials. During the grinding test, samples are collected of the material being processed and the excess material is pumped to the lagoon area where the water can evaporate from the soils. Attachment A is a schematic drawing showing this process.

3. The storage lagoon is approximately 67 ft. x 40 ft. x 12 ft. deep. The lagoon is unlined. (See site sketch, Attachment B)
4. Attachment C includes two Module 1 analyses dated June 25, 1991 and December 12, 1991 of waste stored in the lagoon. The purpose of this analytical work was to determine suitability for land disposal. The waste was determined to be non-hazardous and was subsequently accepted by Modern Landfill, a municipal waste landfill in York County, Pennsylvania.

5. No leachate collection or treatment exists.
6. No monitoring wells presently are located on site.
7. The material in the lagoon presently is approved for disposal under a Module 1, with the State and Modern Landfill. The lagoon is dredged out on an annual basis. Only 100-150 Cu. Yds. of material is typically removed.
8. The facility in question is considered a storage lagoon because materials placed in the lagoon are removed on at least an annual basis and disposed of at an approved facility.
9. Svedala Industries, Inc., will supply a surety bond or collateral bond in an amount determined by the Department.
10. If requested by PADER, Svedala Industries, Inc., will submit a Water Quality Monitoring Plan that meets the requirements of this article. Attachment D contains analytical results from native soil beneath the fill material. The "A" samples were acquired from the top of the native soil while the B samples were collected three feet below. The significant reduction in chemical concentrations from the deeper samples indicates that very little leaching has taken place. Based on this information, it appears unlikely that significant groundwater degradation would have occurred.
11. Because the stored waste is crushed rock, no chemical releases to the atmosphere would be anticipated, additionally the crushed ore is mixed with water during the grinding process eliminating the potential for airborne particulates.
12. Svedala Industries, Inc., is not aware of any former or existing permit covering this facility.
13. To determine whether the siting of this facility is prohibited, Section 299.144(a)(8) applies. This in turn, references Section 289.522(a)(2)(7) and (10). The storage impoundment located at Svedala Industries, Inc., would not be prohibited under these requirements.
14. Annual accumulation of solids varies but has not exceeded 150 Cu. Yds. in recent history. The storage lagoon was most recently cleaned out in June of 1992. At that time, 40 Cu. Yds. were removed and disposed of at Modern Landfill. Svedala Industries, Inc., is currently seeking approval under their module 1 to remove an estimated 1,100 cu. yds. of existing solids in the impoundment.

ATTACHMENT A
PROCESS SCHEMATIC

PROCESS WHICH GENERATES THE WASTE

(Svedala Industries, Inc.)
(TEST PLANT)

COARSE ORE SAMPLES

GRINDING MILL

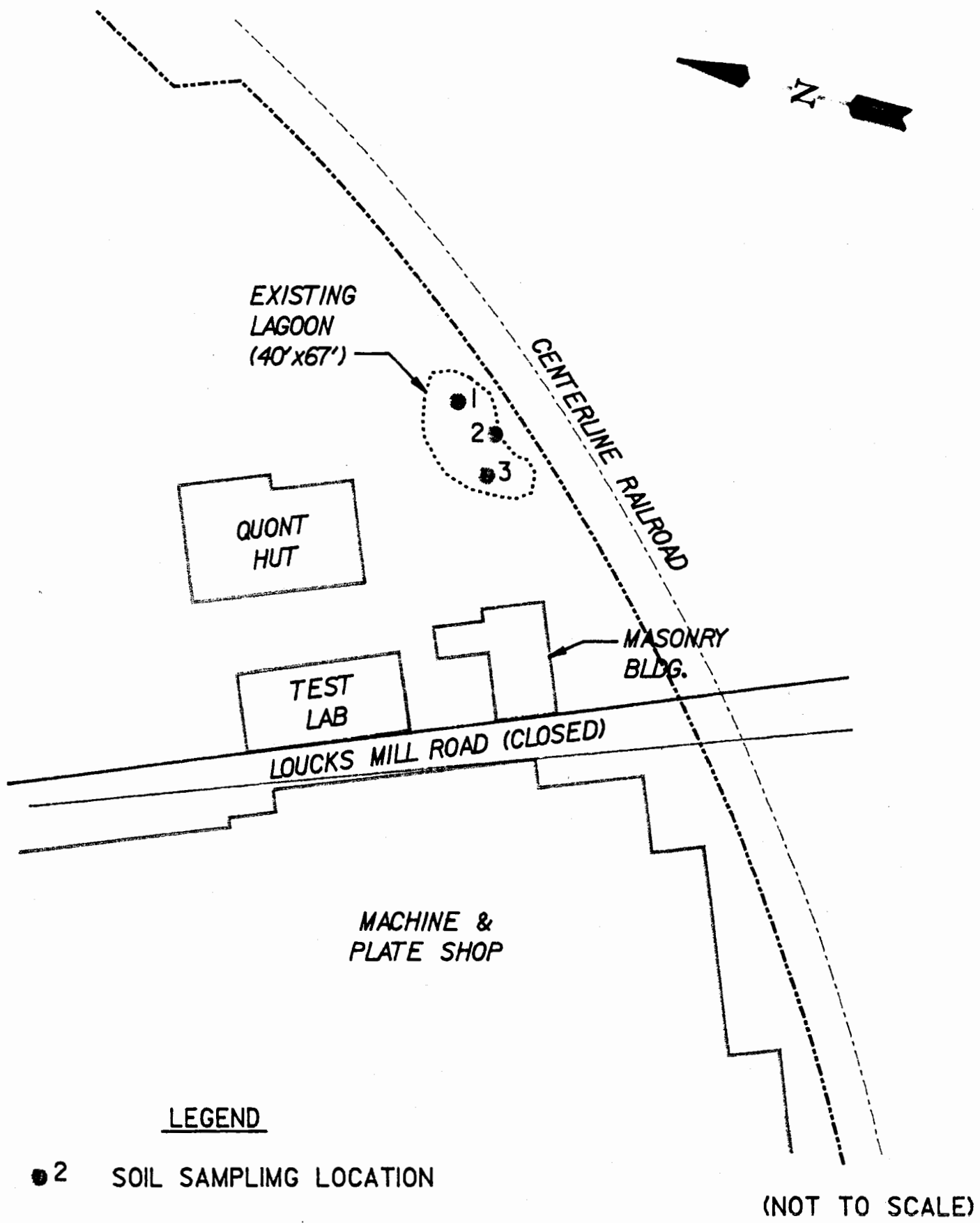
PUMP

LAGOON AREA
FOR WATER EVAPORATION

← WATER

← WATER





DESIGNED BY
DRAWN BY
CHECK BY



DRAWING INTENT IS TO
RECREATE GENERAL
ARRANGEMENT, DESIGN
AND INTENT OF WORK AND
IS PARTLY DIAGNOSTIC.
DRAWING SHALL NOT
BE SCALED.

SITE SKETCH
ALLIS MINERAL SYSTEMS
ARCH STREET
YORK, PA

DRAWING NO.
ATT. B
SHEET NO.
PROJECT NO.
65273

ATTACHMENT C

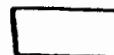
MOD 1 ANALYSES

SPECIAL WASTE ANALYSIS REPORT

This Report is intended for the sole use and benefit of Waste Management and its companies. No representation concerning significance of the reported data is made to any other person or entity.



WASTE PROFILE SHEET CODE



1, 1, 3, 4, 8, 9
FROM SAMPLE CONTAINER

LABORATORY NAME: RMC Environmental Services

5911202.001

ADDRESS 88 Robinson Street Pottstown, PA 19464

LABOR PHONE (215) 327-4850

DATE SAMPLE RECEIVED AT LAB 12-12-91

DATE SAMPLE TAKEN 11-21-91 @ 1000

LAB SAMPLE NUMBER ASSIGNED 10442 MPSI-ORE GRINDING LAGOON SLUDGE

CERTIFICATION OF REP SAMPLE OBTAINED ☐ YES ☒ NO

CERTIFICATION Except as explicitly noted, all analytical data reported below were obtained under my direction and supervision, using sample preparation and analytical methods and analytical equipment specified or approved in the most recent Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods SW-846, USEPA Office of Solid Waste. This laboratory follows a quality assurance control program including a sample chain of custody procedure.

DATE OF REPORT: 12-30-91

SIGNATURE

B. Chris Weathington

LAB MANAGER NAME: B. Chris Weathington

PHYSICAL CHARACTERISTICS OF WASTE

SAMPLE VOLUME 2 1/2 LBS.	COLOR BLACK	ODOR: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> MILD <input type="checkbox"/> STRONG	PHYSICAL STATE @ 70°F <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMISOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> POWDER	LAYERS <input type="checkbox"/> MULTILAYERED <input type="checkbox"/> BILAYERED <input checked="" type="checkbox"/> SINGLE PHASED	FREE LIQUIDS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO VOLUME _____
DESCRIBE _____					

Repl	Parameter	Result	RCRA LIMITS	Date Anal Completed	Analyst	Method
1	ANTIMONY, TOTAL (TCLP)	<0.01 MG/L		12/26/91	BAK	EPA 7040
1	✓ ARSENIC, TOTAL	2.8 MG/KG		12/18/91	EAF	EPA 7060
1	ARSENIC, TOTAL (TCLP)	<0.1 MG/L	5.0 MG/L	12/18/91	BAK	EPA 7060
1	✓ BARIUM, TOTAL	490 MG/KG		12/17/91	LMS	EPA 7080
1	BARIUM, TOTAL (TCLP)	<0.5 MG/L	100.0 MG/L	12/18/91	LMS	EPA 7080
1	CADMIUM, TOTAL	2.8 MG/KG		12/13/91	EAF	EPA 7131
1	CADMIUM, TOTAL (TCLP)	<0.05 MG/L	1.0 MG/L	12/18/91	BAK	EPA 7131
1	CHROMIUM, HEXAVALENT, TOTAL (TCLP)	0.009 MG/L		12/23/91	EAF	EPA 7197
1	CHROMIUM, TOTAL	6.2 MG/KG		12/17/91	EAF	EPA 7191
1	CHROMIUM, TOTAL (TCLP)	<0.05 MG/L	5.0 MG/L	12/18/91	BAK	EPA 7191
1	✓ COPPER, TOTAL	1150 MG/KG		12/17/91	EAF	EPA 7210, 7211
1	COPPER, TOTAL (TCLP)	1.6 MG/L		12/26/91	JNO	EPA 7210, 7211
1	LEAD, TOTAL	64 MG/KG		12/18/91	EAF	EPA 7421
1	LEAD, TOTAL (TCLP)	0.12 MG/L	5.0 MG/L	12/18/91	BAK	EPA 7421
1	MERCURY, TOTAL	<0.07 MG/KG		12/18/91	LMS	EPA 7470, 7471
1	MERCURY, TOTAL (TCLP)	<0.0002 MG/L	0.2 MG/L	12/18/91	LMS	EPA 7470, 7471
1	MOLYBDENUM, TOTAL	<10 MG/KG		12/18/91	EAF	EPA 7481
1	MOLYBDENUM, TOTAL (TCLP)	<0.5 MG/L		12/18/91	EAF	EPA 7481
1	NICKEL, TOTAL	15 MG/KG		12/18/91	EAF	EPA 249.2
1	NICKEL, TOTAL (TCLP)	0.10 MG/L		12/26/91	JCD	EPA 249.2
1	SELENIUM, TOTAL	0.5 MG/KG		12/23/91	EAF	EPA 7740
1	SELENIUM, TOTAL (TCLP)	<0.1 MG/L	1.0 MG/L	12/18/91	BAK	EPA 7740
1	SILVER, TOTAL	2.6 MG/KG		12/13/91	EAF	EPA 7760
1	SILVER, TOTAL (TCLP)	<0.05 MG/L	5.0 MG/L	12/18/91	BAK	EPA 7760
1	ZINC, TOTAL	420 MG/KG		12/15/91	LMS	EPA 7950
1	ZINC, TOTAL (TCLP)	0.20 MG/L		12/19/91	LMS	EPA 7950
1	AMMONIA-NITROGEN(WATER LEACHATE)	7.8 MG/L		12/19/91	ABB	EPA 350.1
1	CHEMICAL OXYGEN DEMAND-H2O LEACHATE	42 MG/L		12/16/91	LAC	EPA 410.4
1	CYANIDE, TOTAL (MACRO DIST.)	<0.05 MG/KG		12/17/91	ABB	EPA 335.3
1	CYANIDE, TOTAL (WATER LEACHATE)	<0.005 MG/L		12/18/91	ABB	EPA 9012

Approved By:

Twila E. Dixon

Twila E. Dixon

Laboratory Operations Manager

SPECIAL WASTE ANALYSIS REPORT

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WASTE ANALYSIS SHEET C004
FROM SAMPLE CONTAINER

LABORATORY NAME: RMC Environmental Services

S911202.001

ADDRESS 88 Robinson Street Pottstown, PA 19464

LABOR PHONE (215) 327-4850

DATE SAMPLE RECEIVED AT LAB 12-12-91

DATE SAME TAKEN: 11-21-91 @ 1000

LAB SAMPLE NUMBER ASSIGNED 10442 MPSI-ORE GRINDING LAGOON SLUDGE

CERTIFICATION OF REP SAMPLE OBTAINED? ☐ YES ☒ NO

CERTIFICATION: Except as explicitly noted, all analytical data reported below were obtained under my direction and supervision, using sample preparation and analytical methods and analytical equipment specified or approved in the most recent "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," SW-846, USEPA Office of Solid Waste. The laboratory follows a quality assurance control program including a sample chain of custody procedure.

DATE OF REPORT: 12-30-91

SIGNATURE

B. Chris Weatherington

LAB MANAGER NAME: B. Chris Weatherington

PHYSICAL CHARACTERISTICS OF WASTE

SAMPLE VOLUME	COLOR	ODOR <input type="checkbox"/> NONE <input checked="" type="checkbox"/> MILD <input type="checkbox"/> STRONG	PHYSICAL STATE @ 70°F <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMISOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> POWDER	LAYERS <input type="checkbox"/> MULTILAYERED <input type="checkbox"/> BALAYERED <input checked="" type="checkbox"/> SINGLE PHASED	FREE LIQUIDS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO VOLUME
2 1/2 LBS.	BLACK				

Repl	Parameter	Result	RCRA LIMITS	Date Anal Completed	Analyst	Method
1	PHENOLICS (TCLP)	0.066 MG/L		12/19/91	ABB	EPA 420.2
1	POLYCHLORINATED BIPHENYLS (SOLID)	<160 UG/KG		12/18/91	SDF	EPA 8080
1	HEATING VALUE	3170 BTU/LB		12/19/91	*	EPA D3286 PT.26
1	OIL + GREASE (SOLID)	320 MG/KG		12/23/91	VLJ	EPA 9070,9071,4
1	OIL + GREASE (WATER LEACHATE)	<1 MG/L		12/16/91	JMA	EPA 9170,413.10
1	BORON (TCLP)	<0.1 MG/L		12/19/91	BAK	SM 404A
1	CARBON, TOTAL ORGANIC (WATER LEACH)	8.3 MG/L		12/17/91	SPK	EPA 415.1
1	CORROSIVITY	NOT CORROSIVE		12/16/91	LAC	SW846, SEC 7.3
1	IGNITABILITY (SOLID)	NOT IGNITABLE		12/18/91	JCD	ASTM D-4981
1	PAINT FILTER TEST	NO FREE LIQUIDS		12/16/91	LAC	EPA 9095
1	PH (SOLID)	12.49 STANDARD	2-12.5 STANDARD	12/17/91	LAC	EPA 9045
1	PH (TCLP - NON-VOLATILE)	12.65 STANDARD		12/13/91	JCD	EPA 9040,9045
1	PH (WATER LEACHATE)	12.90 STANDARD		12/13/91	LB	EPA 9040
1	REACTIVITY	NOT REACTIVE		12/23/91	CM	SW846, SEC 7.3
1	REACTIVITY: CYANIDE	<1 MG/KG	250 MG/KG	12/17/91	ABB	SW846, SEC 7.3
1	REACTIVITY: SULFIDE	<50 MG/KG	500 MG/KG	12/18/91	KAJ	SW846, SEC 7.3
1	TCLP SETUP - NON-VOLATILES	COMPLETED		12/13/91	JCD	EPA 1311
1	TOTAL DISSOLVED SOLIDS-H2O LEACHATE	1530 MG/L		12/23/91	DMK	EPA 160.1
1	TOTAL ORGANIC HALOGENS	<50 MG/KG		12/17/91	SPK	EPA 9020/3050
1	TOTAL ORGANIC HALOGENS (WATER LEACH)	33 UG/L		12/19/91	SPK	EPA 9020
1	TOTAL SOLIDS	783000 MG/KG		12/26/91	DMK	EPA 160.3
1	TOTAL SOLIDS (WATER LEACHATE)	1530 MG/L		12/23/91	DMK	EPA 209A
1	TOTAL VOLATILE SOLIDS	243000 MG/KG		12/26/91	DMK	EPA 160.4
1	TOTAL VOLATILE SOLIDS (WATER LEACH)	208 MG/L		12/23/91	DMK	EPA 160.4
1	WATER LEACHATE SET UP	COMPLETED		12/13/91	LB	ASTM D3987-85

Approved By:

Twila E. Dixon

Twila E. Dixon

Laboratory Operations Manager

* This analysis was subcontracted



SPECIAL WASTE ANALYSIS REPORT

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WASTE ANALYSIS REPORT CODE

1.1.3.4.8.9
FROM SAMPLE CONTAINER

LABORATORY NAME: RMC Environmental Services

5910619.017

ADDRESS: 88 Robinson Street Pottstown, PA 19464

LAB WORK PHONE: (215) 327-4850

DATE SAMPLE RECEIVED AT LAB: 6-25-91

DATE SAMPLE TAKEN: 6-17-91 @ 1100

LAB SAMPLE NUMBER ASSIGNED: 5045 MINERAL PROCESSING SYSTEMS-LAGOON SLUDGE

CERTIFICATION OF REP. SAMPLE OBTAINED? ☐ YES ☐ NO

CERTIFICATION: Except as explicitly noted, all analytical data reported below were obtained under my direction and supervision, using sample preparation and analytical methods and analytical equipment specified or approved in the most recent "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," SW-846, USEPA Office of Solid Waste. This laboratory follows a quality assurance control program, including a sample chain of custody procedure.

DATE OF REPORT: 7-9-91

SIGNATURE

LAB MANAGER NAME: B. Chris Weatherington

B. Chris Weatherington

PHYSICAL CHARACTERISTICS OF WASTE

SAMPLE VOLUME 4 LBS.	COLOR BROWN	ODOR: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> MILD	PHYSICAL STATE @ 70°F	LAYERS	FREE LIQUIDS
		<input type="checkbox"/> STRONG	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> POWDER	<input type="checkbox"/> MULTILAYERED <input type="checkbox"/> BILAYERED <input checked="" type="checkbox"/> SINGLE PHASED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO VOLUME %
DESCRIBE					

Repl	Parameter	Result	Date Anal Completed	Ana-lyst	Method
1	ANTIMONY, TOTAL (TCLP)	<0.01 MG/L	07/04/91	BAK	EPA 7040
1	ARSENIC, TOTAL	17 MG/KG	07/05/91	BAK	EPA 7060
1	ARSENIC, TOTAL (TCLP)	<0.002 MG/L	07/05/91	BAK	EPA 7060
1	BARIUM, TOTAL	230 MG/KG	07/04/91	LMS	EPA 7080
1	BARIUM, TOTAL (TCLP)	<0.5 MG/L	07/04/91	LMS	EPA 7080
1	CADMIUM, TOTAL	2.1 MG/KG	07/05/91	BAK	EPA 7131
1	CADMIUM, TOTAL (TCLP)	<0.05 MG/L	07/01/91	BAK	EPA 7131
1	CHROMIUM, HEXAVALENT, TOTAL (TCLP)	<0.002 MG/L	07/08/91	BAK	EPA 7197
1	CHROMIUM, TOTAL	8.0 MG/KG	06/26/91	JNO	EPA 7191
1	CHROMIUM, TOTAL (TCLP)	<0.05 MG/L	07/01/91	JNO	EPA 7191
1	COPPER, TOTAL	1350 MG/KG	06/26/91	JNO	EPA 7210, 7211
1	COPPER, TOTAL (TCLP)	0.44 MG/L	07/03/91	BAK	EPA 7210, 7211
1	LEAD, TOTAL	220 MG/KG	07/01/91	JNO	EPA 7421
1	LEAD, TOTAL (TCLP)	<0.1 MG/L	07/01/91	JNO	EPA 7421
1	MERCURY, TOTAL	<0.07 MG/KG	07/02/91	BAK	EPA 7470, 7471
1	MERCURY, TOTAL (TCLP)	<0.0002 MG/L	07/02/91	BAK	EPA 7470, 7471
1	MOLYBDENUM, TOTAL	32 MG/KG	07/01/91	JNO	EPA 7481
1	MOLYBDENUM, TOTAL (TCLP)	0.03 MG/L	07/01/91	JNO	EPA 7481
1	NICKEL, TOTAL	33 MG/KG	06/26/91	JNO	EPA 249.2
1	NICKEL, TOTAL (TCLP)	0.14 MG/L	07/08/91	BAK	EPA 249.2
1	SELENIUM, TOTAL	0.3 MG/KG	07/08/91	BAK	EPA 7740
1	SELENIUM, TOTAL (TCLP)	<0.002 MG/L	07/01/91	JNO	EPA 7740
1	SILVER, TOTAL	<5 MG/KG	07/05/91	BAK	EPA 7760
1	SILVER, TOTAL (TCLP)	<0.05 MG/L	07/05/91	BAK	EPA 7760
1	ZINC, TOTAL	1690 MG/KG	07/05/91	LMS	EPA 7950
1	ZINC, TOTAL (TCLP)	2.24 MG/L	07/02/91	LMS	EPA 7950
1	AMMONIA-NITROGEN (WATER LEACHATE)	0.039 MG/L	06/27/91	ABB	EPA 350.1
1	CHEMICAL OXYGEN DEMAND-H ₂ O LEACHATE	19 MG/L	06/28/91	LAC	EPA 410.4
1	CYANIDE, TOTAL (MACRO DIST.)	0.08 MG/KG	07/08/91	ABB	EPA 335.3
1	CYANIDE, TOTAL (WATER LEACHATE)	<0.005 MG/L	06/28/91	ABB	EPA 9012

Approved By:

Twila E. Dixon

Twila E. Dixon

Assistant Laboratory Manager

SPECIAL WASTE ANALYSIS REPORT

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No representation concerning significance of the reported data is made to any other person or entity.



WASTE PROFILE SHEET CODE

1, 1, 3, 4, 8, 9
FROM SAMPLE CONTAINER

LABORATORY NAME: RMC Environmental Services S910619.017
ADDRESS: 88 Robinson Street Pottstown, PA 19464 LAB MGR PHONE: (215) 327-4850
DATE SAMPLE RECEIVED AT LAB: 6-25-91 DATE SAME TAKEN: 6-17-91 @ 1100
LAB SAMPLE NUMBER ASSIGNED: 5045 MINERAL PROCESSING SYSTEMS-LAGOON SLUDGE CERTIFICATION OF REP. SAMPLE OBTAINED? ☐ YES ☐ NO
CERTIFICATION: Except as explicitly noted, all analytical data reported below were obtained under my direction and supervision, using sample preparation and analytical methods and analytical equipment specified or approved in the most recent "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," SW 846, USEPA Office of Solid Waste. This laboratory follows a quality assurance control program, including a sample chain of custody procedure.
DATE OF REPORT: 7-9-91 SIGNATURE _____
LAB MANAGER NAME: B. Chris Weathinoton

PHYSICAL CHARACTERISTICS OF WASTE

SAMPLE VOLUME 4 LBS.	COLOR BROWN	ODOR: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> MILD <input type="checkbox"/> STRONG DESCRIBE _____	PHYSICAL STATE @ 70°F <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> POWDER	LAYERS <input type="checkbox"/> MULTILAYERED <input type="checkbox"/> BILAYERED <input checked="" type="checkbox"/> SINGLE PHASED	FREE LIQUIDS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO VOLUME _____%
--------------------------------	-----------------------	---	---	--	--

Repl	Parameter	Result	Date Anl Completed	Ana-lyst	Method
1	PHENOLICS (TCLP)	0.06 MG/L	07/01/91	ABB	EPA 420.2
1	POLYCHLORINATED BIPHENYLS (SOLID)	<2400 UG/KG	07/08/91	JAI	EPA 8080
1	CORROSIVITY	NOT CORROSIVE	06/26/91	LAC	SW846, SEC 7.2.1A
1	PH (SOLID)	8.66 STANDARD	06/26/91	LAC	EPA 9045
1	PH(WATER LEACHATE)	9.96 STANDARD	06/27/91	WSP	EPA 9040
1	HEATING VALUE	83 BTU/LB	07/05/91	*	EPA D3286 PT.76
1	OIL + GREASE(WATER LEACHATE)	<1 MG/L	07/01/91	CLM	EPA 9170, 413.1 (IR)
1	OIL AND GREASE (SOLID)	467 MG/KG	07/01/91	VLJ	EPA 9070, 9071.
1	BORON (TCLP)	0.23 MG/L	07/01/91	KAJ	SM 404A
1	CARBON, TOTAL ORGANIC (WATER LEACH)	1.9 MG/L	07/02/91	SPK	EPA 415.1
1	IGNITABILITY (SOLID)	NOT IGNITABLE	06/29/91	CH	ASTM D-4982-89A
1	PAINT FILTER TEST	NO FREE LIQUIDS	06/26/91	LAC	EPA 9095
1	PH (TCLP - NON-VOLATILE)	6.23 STANDARD	06/27/91	JEC	EPA 9040, 9045
1	REACTIVITY	NOT REACTIVE	06/29/91	CH	SW846, SEC 7.3
1	REACTIVITY: CYANIDE	<1 MG/KG	06/28/91	ABB	SW846, SEC 7.3
1	REACTIVITY: SULFIDE	<50 MG/KG	06/27/91	KAJ	SW846, SEC 7.3
1	TCLP SETUP - NON-VOLATILES	COMPLETED	06/27/91	WSP	EPA 1311
1	TOTAL DISSOLVED SOLIDS-H2O LEACHATE	96 MG/L	06/27/91	DMK	EPA 160.1
1	TOTAL ORGANIC HALOGEN (WATER LEACH)	52 UG/L	07/02/91	SPK	EPA 9020
1	TOTAL ORGANIC HALOGENS	<50 MG/KG	07/03/91	SPK	EPA 9020
1	TOTAL SOLIDS	997000 MG/KG	06/28/91	DMK	EPA 160.3
1	TOTAL SOLIDS (WATER LEACHATE)	96 MG/L	06/27/91	DMK	EPA 209A
1	TOTAL VOLATILE SOLIDS	10800 MG/KG	06/28/91	DMK	EPA 160.4
1	TOTAL VOLATILE SOLIDS (WATER LEACH)	60 MG/L	06/27/91	DMK	EPA 160.4
1	WATER LEACHATE SET UP	COMPLETED	06/27/91	WSP	ASTM D3987-85

Approved By:

Twila E. Dixon
Twila E. Dixon
Assistant Laboratory Manager

* This analysis was subcontracted

ATTACHMENT D
SOIL CHARACTERIZATION



B-H LABORATORIES

978 Loucks Mill Road
York, PA 17402-1999
717 843 5561
FAX: 717 852 8923

Laboratory Certified By:
Department of Environmental Resources #67042

Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Chuck Kinney

FROM: Scott Brunk

DATE: September 25, 1992

RE : Sample #SSD928793

MPSI - BP-1A

Collected/Delivered 9/14/92 @ 0840 Hours By T. Blauch

ANALYSIS	RESULTS	UNITS
Arsenic, Total	<2.5	mg/kg
Barium, Total	51	mg/kg
Copper, Total	3100	mg/kg
Lead, Total	35	mg/kg
Zinc, Total	210	mg/kg
Residue, Total	74.8	%
Total Petroleum Hydrocarbon	99	mg/kg

CERTIFIED: _____

Scott Brunk

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FAX 717 852 8923

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Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Chuck Kinney

FROM: Scott Brunk

DATE: September 25, 1992

RE : Sample #SSD928794
MPSI - BP-2A

Collected/Delivered 9/14/92 @ 0900 Hours By T. Blauch

ANALYSIS	RESULTS	UNITS
Arsenic, Total	1.7	mg/kg
Barium, Total	55	mg/kg
Copper, Total	3800	mg/kg
Lead, Total	87	mg/kg
Zinc, Total	2400	mg/kg
Residue, Total	88.6	%
Total Petroleum Hydrocarbon	93	mg/kg

CERTIFIED: _____

Scott A Brunk

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Environmental Laboratories

TO : Chuck Kinney

FROM: Scott Brunk

DATE: September 25, 1992

RE : Sample #SSD928796
MPSI - BP-1B

Collected/Delivered 9/14/92 @ 0850 Hours By T. Blauch

ANALYSIS	RESULTS	UNITS
Residue, Total	69.3	%
Total Petroleum Hydrocarbon	<58	mg/kg

CERTIFIED: _____

Scott Brunk



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Environmental Laboratories

TO : Chuck Kinney

FROM: Scott Brunk

DATE: September 25, 1992

RE : Sample #SSD928797
MPSI - BP-3B

Collected/Delivered 9/14/92 @ 0945 Hours By T. Blauch

<u>ANALYSIS</u>	<u>RESULTS</u>	<u>UNITS</u>
Residue, Total	83.2	%
Total Petroleum Hydrocarbon	<58	mg/kg

CERTIFIED: _____

Scott A Brunk



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York PA 17402-1999
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FAX: 717 852 8923

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Department of Environmental Resources #67042

Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Chuck Kinney

FROM: Scott Brunk

DATE: September 25, 1992

RE : Sample #SSD928795
MPSI - BP-3A

Collected/Delivered 9/14/92 @ 0930 Hours By T. Blauch

ANALYSIS	RESULTS	UNITS
Arsenic, Total	5.0	mg/kg
Barium, Total	24	mg/kg
Copper, Total	26	mg/kg
Lead, Total	26	mg/kg
Zinc, Total	100	mg/kg
Residue, Total	85.4	%
Total Petroleum Hydrocarbon	120	mg/kg

CERTIFIED: _____

Scott A Brunk



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717 843 5561
FAX: 717 852 8923

Laboratory Certified By
Department of Environmental Resources #67042

Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Teresa Blauch

FROM: Scott Brunk

DATE: October 20, 1992

RE : Sample #SSD929302 - BP-1B

MPSI

Collected 9/14/92 @ 0850 Hours By T.A.B.

Delivered 10/1/92 By T.A.B.

ANALYSIS	RESULTS	UNITS
Residue, Total	58.9	%
Copper, Total	320	mg/kg
Lead, Total	17	mg/kg
Zinc, Total	17	mg/kg

CERTIFIED: _____

Scott A Brunk



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York, PA 17402-1999
717 843 5561
FAX 717 852 8923

Laboratory Certified By:
Department of Environmental Resources #67042

Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Teresa Blauch

FROM: Scott Brunk

DATE: October 20, 1992

RE : Sample #SSD929303 - BP-3B
MPSI

Collected 9/14/92 @ 0945 Hours By T.A.B.

Delivered 10/1/92 By T.A.B.

ANALYSIS	RESULTS	UNITS
Residue, Total	82.5	%
Copper, Total	15	mg/kg
Lead, Total	22	mg/kg
Zinc, Total	48	mg/kg

CERTIFIED: _____

Scott Brunk



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Complete Analytical Services

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SECTION II.....STATUS AND DESCRIPTION NOTICE
ATTACHMENT A - PROCESS SCHEMATIC DRAWING
ATTACHMENT B - SITE SKETCH

SECTION III.....ATTACHMENT C - MODULE 1 ANALYSIS - 6/25/91
- MODULE 1 ANALYSIS - 12/12/91

SECTION IV.....ATTACHMENT D - ANALYTICAL NATIVE SOIL RESULTS

10. LETTER FROM PADEP TO ALLIS MINERAL SYSTEMS, NOVEMBER 14, 1994

PROVIDED BY: PADEP



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES**

**1 Ararat Boulevard
Harrisburg, PA 17110
November 14, 1994**

(717) 657-4590

Southcentral Regional Office

**Korlan B. Strayer, Manufacturing Manager
Allis Mineral Systems
Svedala Industries, Inc.
240 Arch Street, P.O. Box 15312
York, PA 17405-7312**

**Re: Residual Waste Requirements
Submission for closure**

Dear Mr. Strayer:

This letter is to acknowledge the receipt of your Form T3 required for transition procedure for residual waste storage impoundments and your intent to close-out your impoundments rather than meet the residual waste requirements for storage impoundments. Closure of the impoundments must be in compliance with Section 289.172 of the Department's Rules and Regulations.

Upon cessation of use of the storage impoundment at the facility, the operator shall submit a plan for the removal of standing liquids, waste and waste residues, liners, and underlying and surrounding contaminated soil, and to dispose of the waste material at a solid waste management facility that is permitted to accept the waste.

The closure plan should include information outlined in Chapters 289.172(1), (5i, iv, v), (7c). Waste Management has also developed guidelines for cleanup of contaminated soils which I have included. Bureau of Waste Management Form U and Form 26R should be completed for the disposal of residual waste remaining in the impoundment.

An operator may be required to conduct soil and groundwater monitoring after cessation of operations depending on the operational history of the facility, the nature of the wastes stored in the impoundment, and the likelihood that there will be groundwater degradation in the future.

If an alternate storage container or tank is to be installed at the facility to replace the closed impoundment, it must meet standards established under the Storage Tank and Spill Prevention Act (35P.S. 6021.101-6021-2105). An amendment of the facility's Water Management Part II Permit is required to reflect specifications of the storage tank or container.

During the interim period, your facility will be required to meet the residual waste removal frequency and maintenance of at least two feet of free board in your impoundments. The residual waste regulations require a clean-out frequency of at least one year in order to maintain classification as a storage impoundment. The Department requests that your facility submit a method of clean-out and frequency of clean-out proposal. If economic and operational justification can be made the Department is willing to extend the clean-out frequency.

A copy of a formal closure plan for your facility's impoundment is due to this office within six months of the receipt of this letter. If you have any further questions about the new regulations please call me. Your cooperation in implementing these new regulations is greatly appreciated.

Sincerely,

Michelle R. Bell

Michelle R. Bell
Hydrogeologist
Water Management Program

Enclosures

C

C

C

**11. CLOSURE PLAN FOR RESIDUAL WASTE STORAGE IMPOUNDMENT,
BUCHART HORN, INC., APRIL 1995**

PROVIDED BY: PADEP

May 22, 1995

Michelle R. Bell
Commonwealth of Pennsylvania
Department of Environmental Resources
1 Ararat Boulevard
Harrisburg, PA 17110

Reference: Closure Plan Submission For
Residual Waste Storage Impoundment

Dear Ms. Bell:

Enclosed please find the required Closure Plan for the Residual Waste Storage Impoundment located at our facility. This submission should satisfy the requirements outlined in your November 14, 1994 response to our T-3 submittal. Should you have any question, please feel free to give me a call.

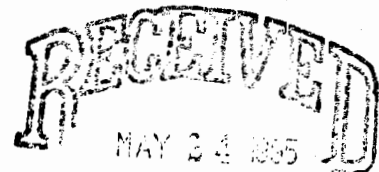
Sincerely,



KORLAN B. STRAYER
MANUFACTURING MANAGER

849-2619

cc: D. Smith
Buchart - Horn



DER-SOUTHCENTRAL REGION
Water Management Program

**CLOSURE PLAN
FOR
RESIDUAL WASTE STORAGE IMPOUNDMENT
LOCATED AT
ALLIS MINERAL SYSTEMS
A DIVISION OF SVEDALA INDUSTRIES, INC.
240 ARCH STREET
YORK, PENNSYLVANIA 17405**

APRIL 1995

BH NO. 65273



**CLOSURE PLAN
FOR
RESIDUAL WASTE STORAGE IMPOUNDMENT
LOCATED AT
ALLIS MINERAL SYSTEMS
A DIVISION OF SVEDALA INDUSTRIES, INC.
240 ARCH STREET
YORK, PENNSYLVANIA 17405**

APRIL 1995

BH NO. 65273

PREPARED BY:

**BUCHART-HORN, INC.
55 SOUTH RICHLAND AVENUE
P.O. BOX 15055
YORK, PENNSYLVANIA 17405**

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1.0 INTRODUCTION

2.0 IMPLEMENTATION STRATEGY

2.1 SEQUENCE OF CONSTRUCTION

2.2 DESCRIPTION

3.0 POST CLOSURE ACTIVITY

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3.2 EROSION AND SEDIMENTATION CONTROL

3.3 FINAL COVER

3.4 ACCESS CONTROL

3.5 FUNDING

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APPENDIX A - GROUNDWATER MONITORING PLAN

APPENDIX B - FORM T-3 (SUBMITTED NOVEMBER 1992)

1.0 INTRODUCTION

This report contains the proposed Closure Plan for the residual waste storage impoundment owned and operated by:

**Allis Mineral Systems
A Division of Svedala Industries, Inc.
P.O. Box 15312
240 Arch Street
York, PA**

Allis Mineral Systems Grinding Division, Svedala Industries, Inc., is the leading manufacturer of size reduction equipment for the mining and industrial minerals industries. Their product line consists of Ball, Rod, Pebble, Autogenous, Semi-Autogenous, and Verti-Mills. This equipment reduces the particle size of ores, industrial minerals, etc. to prepare them for downstream processes.

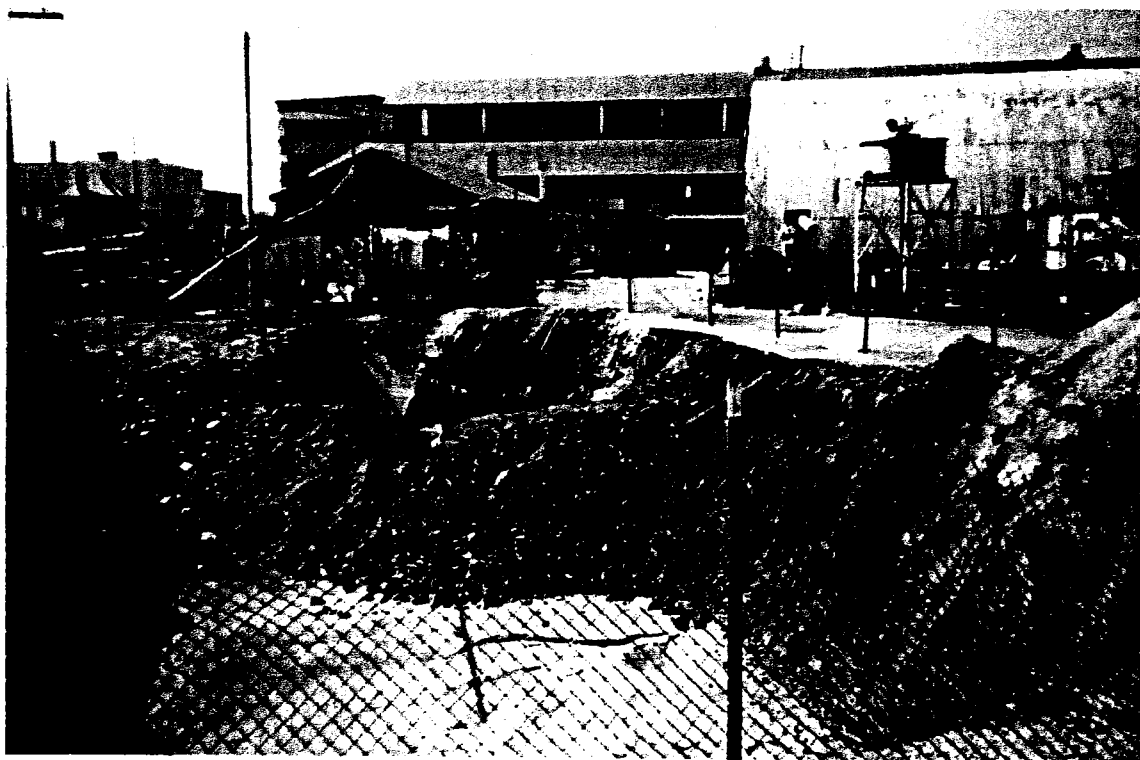
To design and size the equipment which is supplied by Svedala Industries, Inc., some basic design information is required. In order to obtain this information, it is common to have potential clients send samples of the materials for physical testing, mainly as to hardness or resistance to grinding. These samples may consist of a few pounds to several hundred tons. The samples are run through laboratory size equipment where water may be added to aid the grinding process (no other chemicals are added.) The particle size of the material is reduced in the grinding mill, but no effort is made to effect any chemical change to the materials.

During the grinding test, samples are collected of the material being processed and the excess material is pumped to the impoundment area where the water can evaporate from the cuttings. The storage impoundment is of irregular shape, approximately 70 feet x 37 feet x 12 feet deep. Its location is shown on Figure 1.1. Photos of the site are displayed on Figure 1.2. The impoundment is unlined.

This closure plan is intended to comply with Section 289.172 of the Department's Rules and Regulations. It is projected that closure will be implemented in 1999 to allow for design and implementation of an alternative system. At this time a contained dewatering system and subcontracting of physical testing are under consideration as alternatives.



LOOKING SOUTHEAST



LOOKING NORTHWEST

PERMIT & STUDY, INC.

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BY	ARRANGEMENT DESIGN
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BY	S PARTLY DIAGNOSTIC
CHECK	DRAWING SHALL NOT
BY	BE SCALED
DATE	Buchart Horn, Inc.



Consulting Engineers and Planners

SITE PHOTOGRAPHS
RESIDUAL WASTE IMPOUNDMENT
ALLIS MINERAL SYSTEMS
YORK, PENNSYLVANIA

DRAWING NO
FIG. 1.2

SHEET NO

PROJECT NO

2.0 IMPLEMENTATION STRATEGY

The impoundment to be closed is approximately 0.06 acres in size and is unlined. Other than the impoundment, the immediate vicinity is covered by asphalt pavement. Because this is a relatively small area the proposed method of closure is excavation and disposal. The length, width and required depth of excavation can be achieved with standard track-hoe equipment, by utilizing temporary earth landings. This is the current method used for annual waste clean-out. The following steps are proposed for closure.

2.1 Sequence of Construction

1. Remove all waste material from lagoon and place in "roll-offs".
2. Once native soil is exposed, over-excavate the sidewalls by one foot and the bottom by approximately two feet to effectively remove any mixing zone. All material removed from the excavation of the existing lagoon shall be boxed and trucked from the site to a disposal facility which is permitted to accept this type of material.
3. Perform confirmatory soil sampling.
 - a. Remove additional impacted soil if necessary.
 - b. Perform additional confirmatory sampling.
4. Backfill/pave.

2.2 Description

1. It is anticipated that approximately 53 cubic yards of waste material currently exist in the impoundment. The impoundment is typically dry so no separate fluids handling is anticipated. All material will be placed in roll-offs on site, chemically characterized and disposed of at Modern Landfill in Windsor Township, York County, Pennsylvania. This material has historically been disposed of in this manner. Past waste characterization analyses can be found in Appendix 3.

The impoundment area is typically dry. In the event that dewatering is required, the following procedure will be employed:

Dewater excavation by use of "DIRTBAG" or an equal sediment filter bag, meeting the specification stated below.

- a. Place sediment bag on pavement, downslope of excavation to obtain positive drainage away from disturbance.
- b. Use a pump with a rating in gallons per minute not to exceed 50% of the maximum flow rate listed on the bag label. Double clamp the pump discharge hose firmly to the bag.
- c. Monitor and evaluate the entire pumping operation to assure that the bag continues to function properly.
- d. Replace the bag when the contained silt reduces the bag's flow to approximately 50% of the rate of the initial discharge, or when directed by the inspector-in-charge.
- e. Dispose of sediment in a manner complying with applicable regulations. Restore the area to original condition.

Sediment Filter Bag-Material Specification

Geotextile, Class 4, as specified in PADOT 408 Section 735 and as follows:

- a. Geotextile, Table A, Class 4, except use a seam breaking strength of 200 lbs., minimum.
 - b. Use a 401 lock chain stitch seam or a heat bonded seam.
 - c. Permanently attach a manufacturer's label to each bag designating the maximum allowable flow rate of the bag in gallons per minute.
2. Over-excavation is proposed based on a 1992 sampling event designed to determine the condition of the native soil below the fill material. Samples were collected from three excavated test pits. One sample from each test pit was collected from 0-1 foot below the native soil interface. Two of the shallow samples exhibited levels of copper in excess of established soil cleanup criteria; in one shallow sample zinc exceeded this criteria. The deeper samples (2-3 feet below the native soil interface) were well within established levels for each of the metals analyzed.

The over-excavated soil material will also be placed in roll-offs, characterized and disposed of at Modern Landfill. An additional 420 cubic yards of materials is anticipated.

Note that all materials and operations for erosion control and grading work shall be in accordance with the most recent PADOT Publication 408 and Chapter 102 of the Pennsylvania DER Erosion and Sediment Pollution Control Manual, issued April 1990.

3. Upon completion of the excavation activities confirmatory soil samples will be collected from the side walls and base of the excavation. Samples will be collected based on the following:

1 sample for every 400 square feet of exposed excavation bottom

1 sample for every 40 linear feet of exposed sidewall.

Assuming current dimensions this would result in six bottom samples and six sidewall samples.

The following analytical parameters are proposed based on identified compounds in past waste characterization analyses.

<u>Compounds</u>	<u>Soil Cleanup Criteria (mg/kg)*</u>
Total Arsenic	20
Total Barium	5000
Total Cadmium	20
Total Chromium	1000
Total Copper	700
Total Lead	600**
Total Nickel	200
Total Selenium	60
Total Silver	4100**
Total Zinc	1000

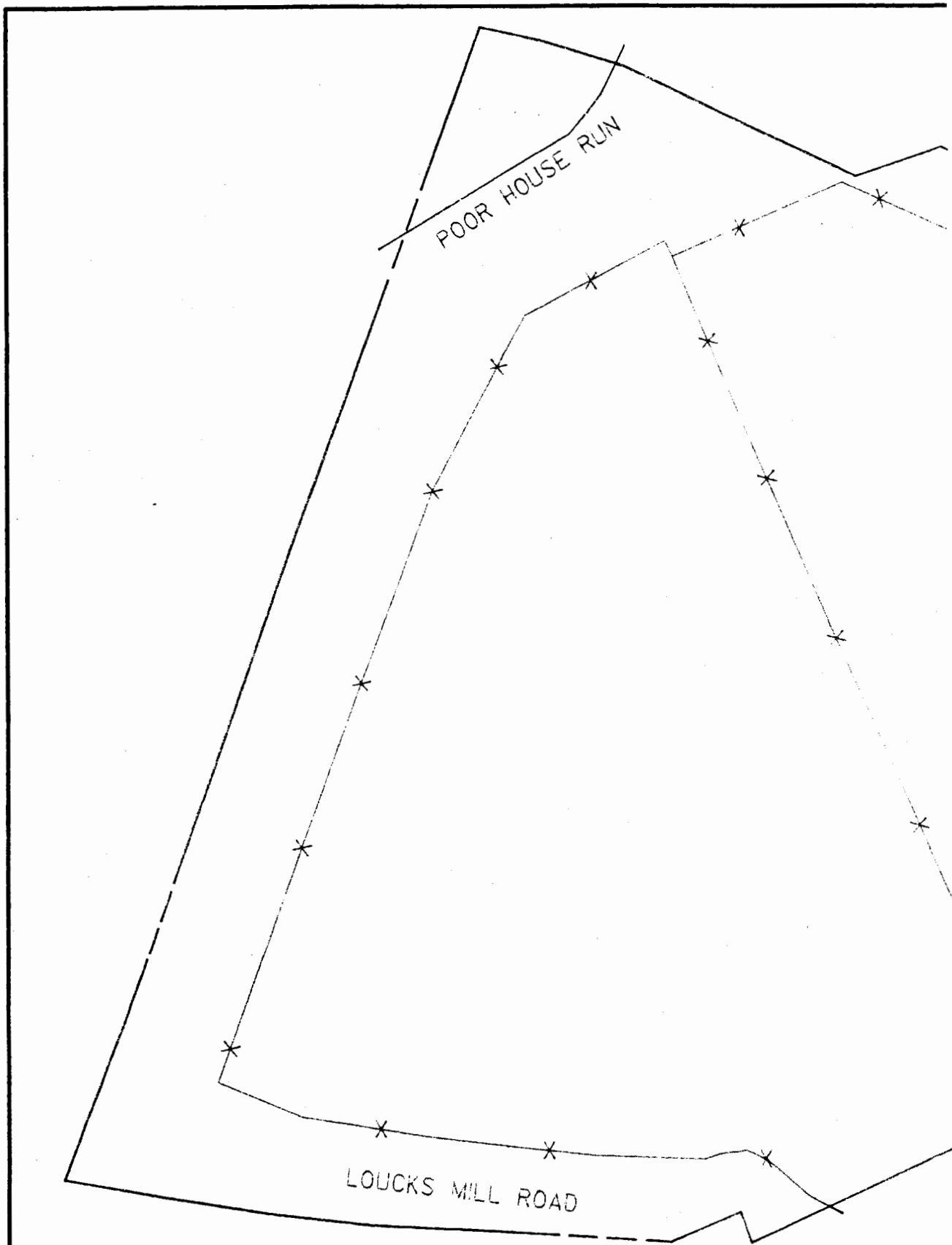
*Based on PADER's Clean-up Standards for Contaminated Soils, December 1993, unless indicated by **.


**No criteria for these compounds listed by above document. Proposed closure criteria is based on New Jersey Department of Environmental Resources Non-Residential Soil Cleanup Criteria.

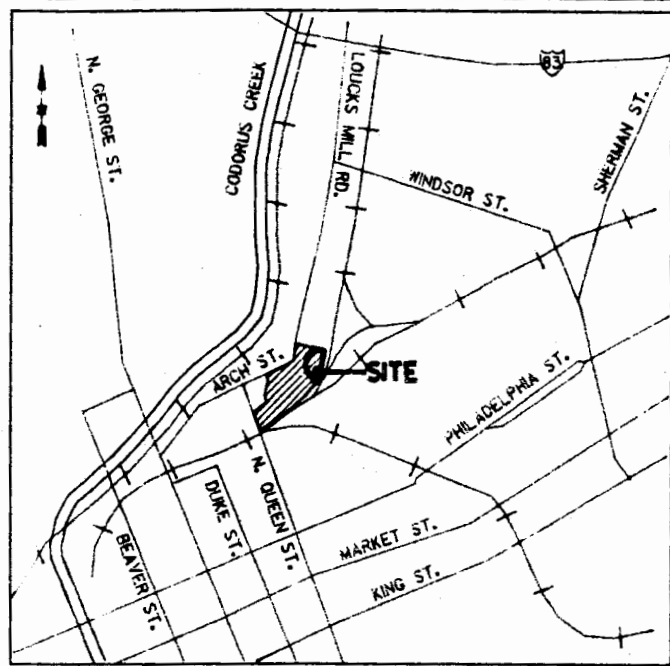
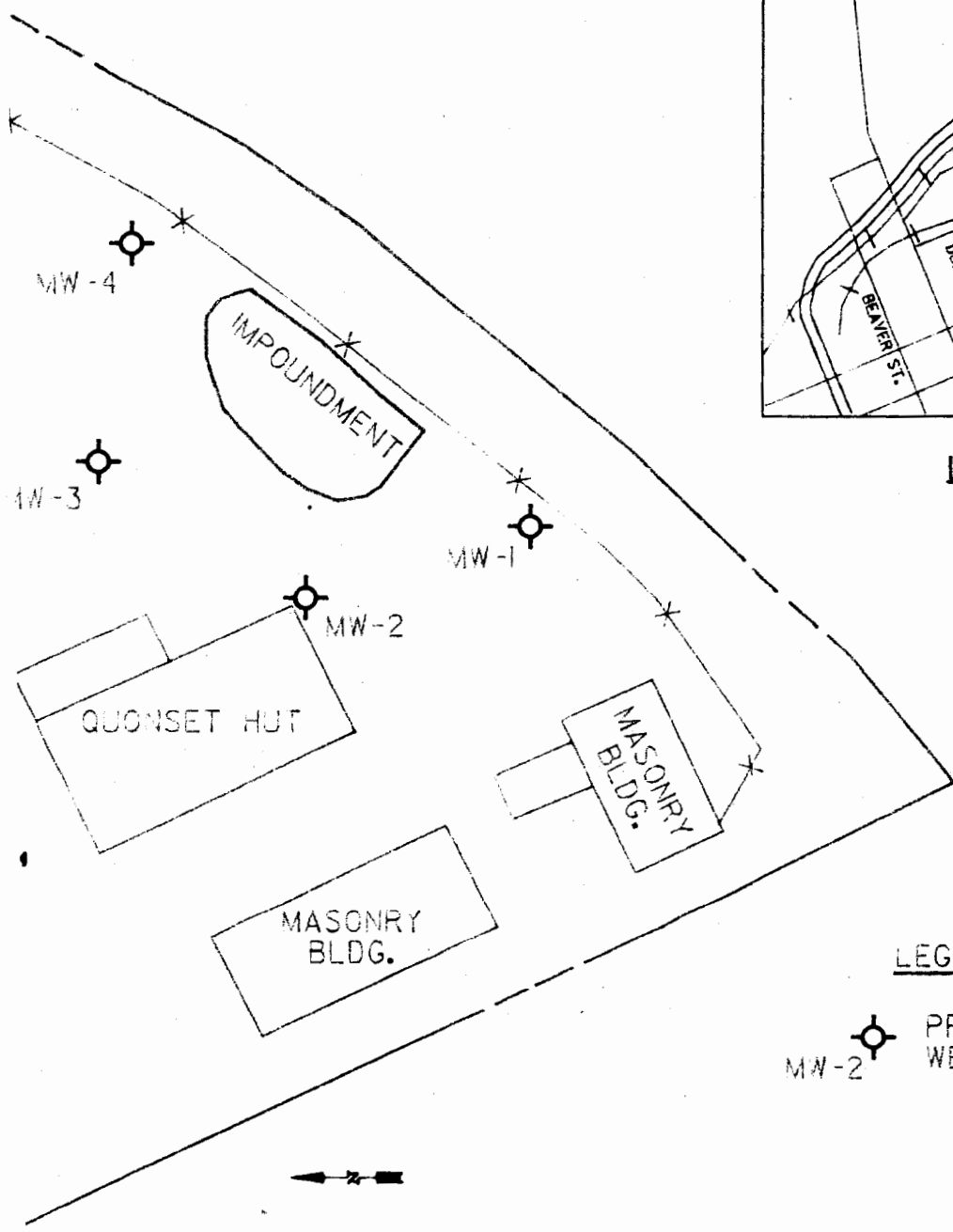
If any sampling points exhibit concentrations above these listed criteria, additional excavation will take place to remove the impacted soil. The area will then be resampled and the process repeated until the soil is confirmed to be clean or the excavation reaches bedrock.

4. Clean backfill soil material will be placed in the excavation in loose 8-inch lifts and compacted to at least 95% density allowing for a 13 inch paving section. Eight inches of 2A stone will then be placed in a similar fashion and compacted to at least 95% density. The area will then be paved with 3-1/2" ID-2 binder course and 1-1/2" ID-2 wearing course, in accordance with PADOT Publication 408 specification. Any debris or sediment will be removed from all paved surfaces.

Figure 2.1, Sheets 1 - 5, schematically depict the closure process.




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LOCATION MAP
SCALE: 1"=2000'

LEGEND

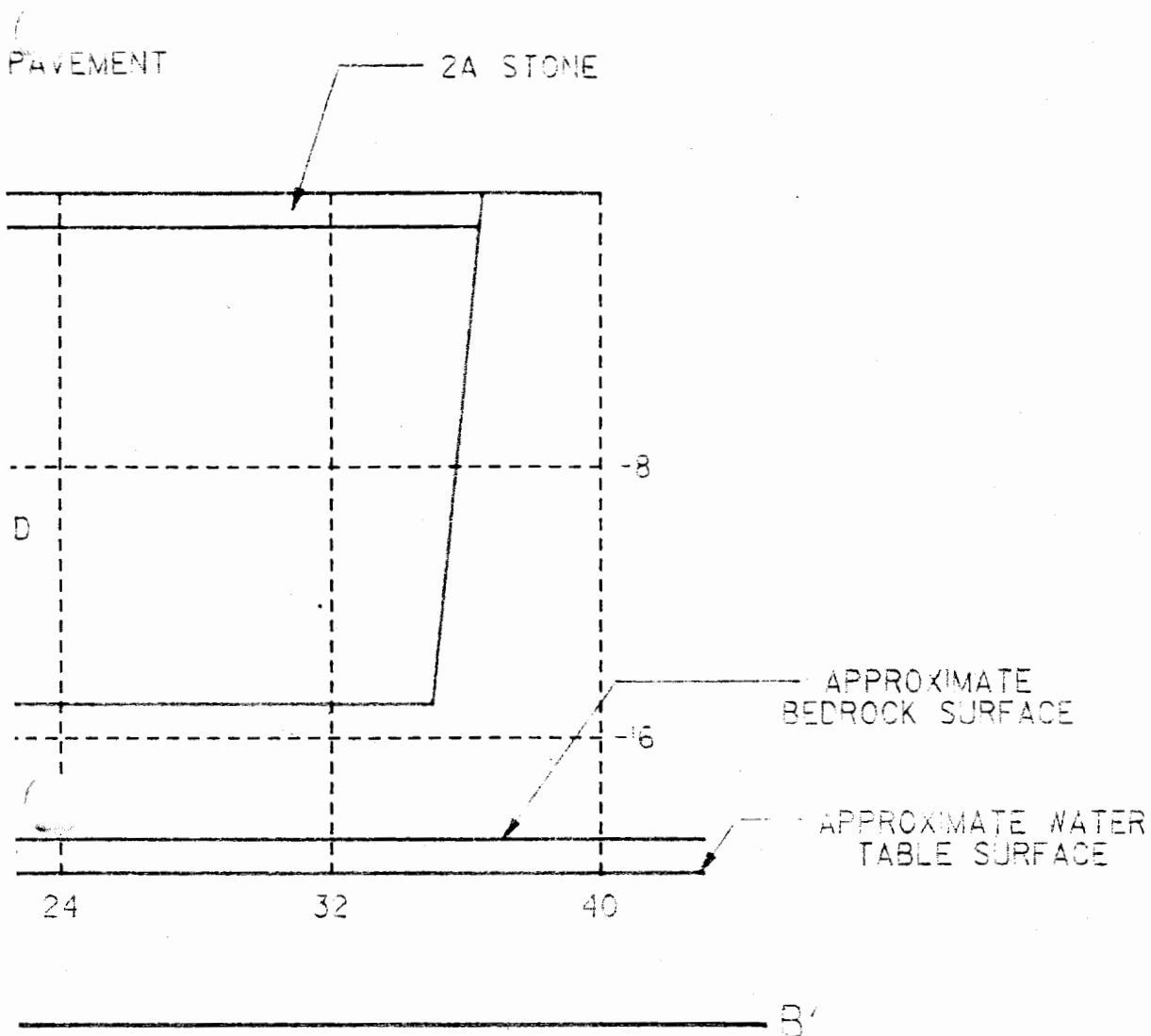
 PROPOSED MONITORING WELL



**NERAL SYSTEM
PENNSYLVANIA**

**SITE PLAN
PORTION OF ALLIS MINERAL SYSTEMS
(FROM LAND SURVEY CONSULTANT 1991)**

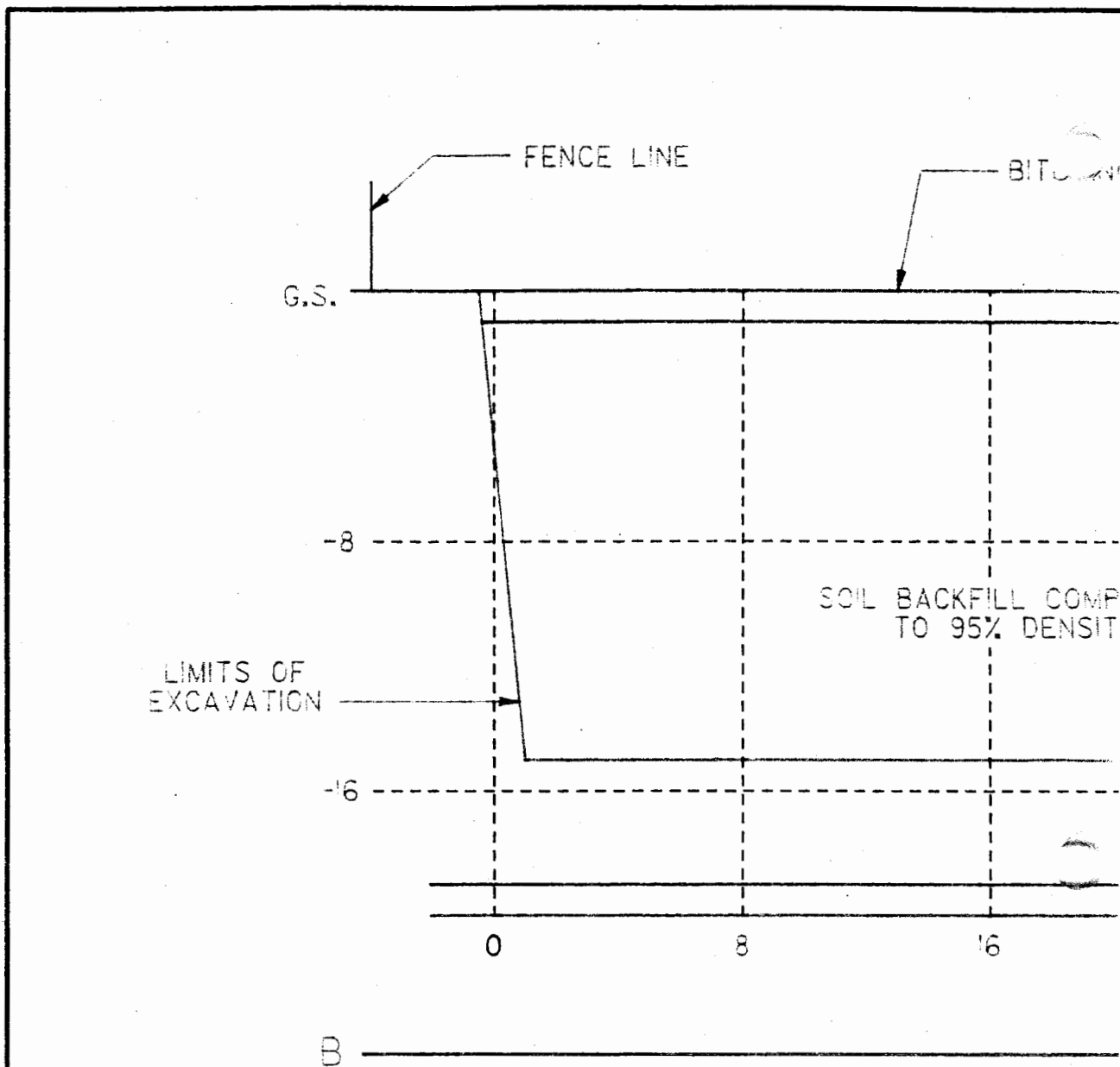
DRAWING NO. FIG. 1.1
SHEET NO.
PROJECT NO. 65273





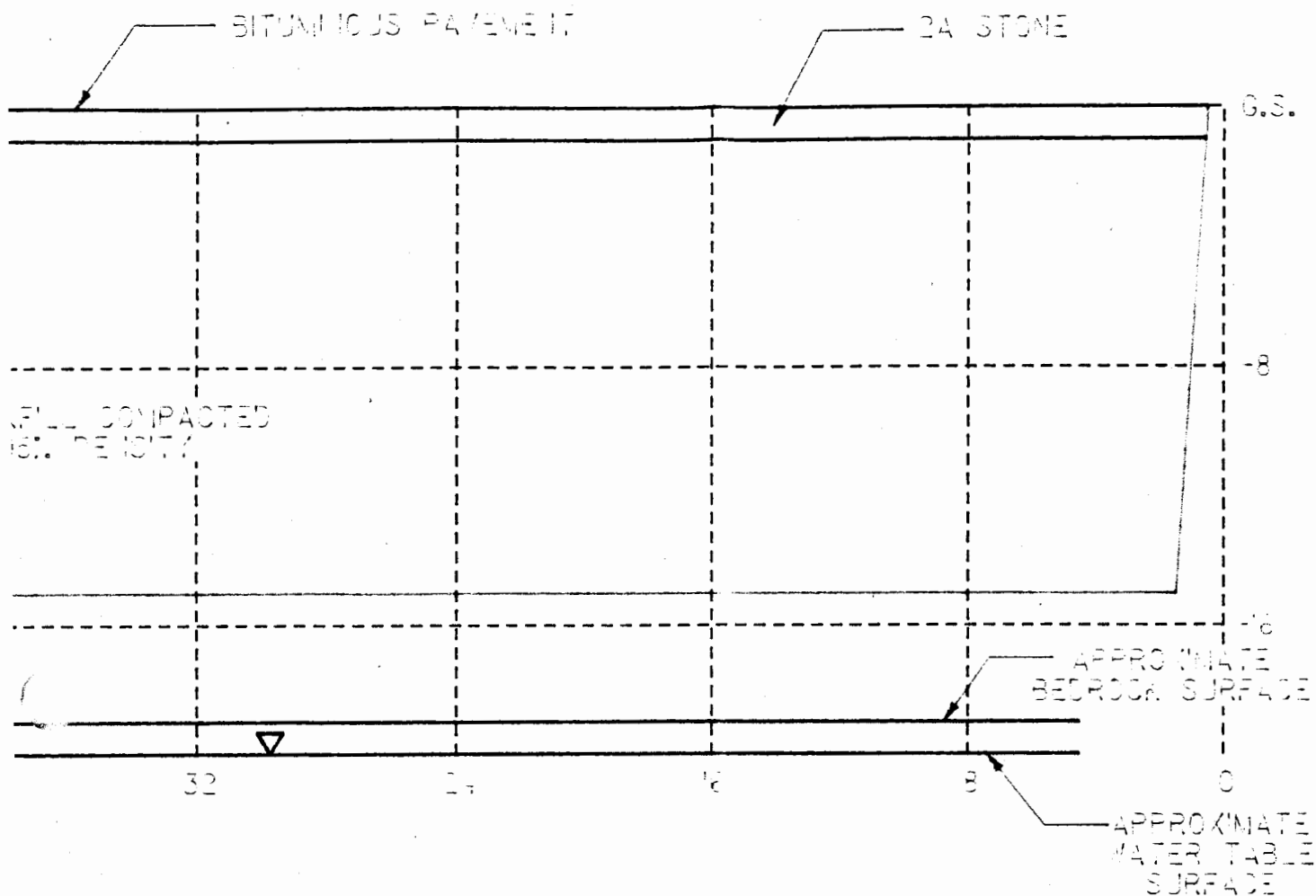
WATERAL SYSTEM
PENNSYLVANIA

CROSS SECTIONS SHOWING
PROPOSED POST - CLOSURE CONDITIONS
RESIDUAL WASTE STORAGE IMPOUNDMENT

FIG. 2.1
SHEET NO.
SHT. 5
PROJECT NO.
65273



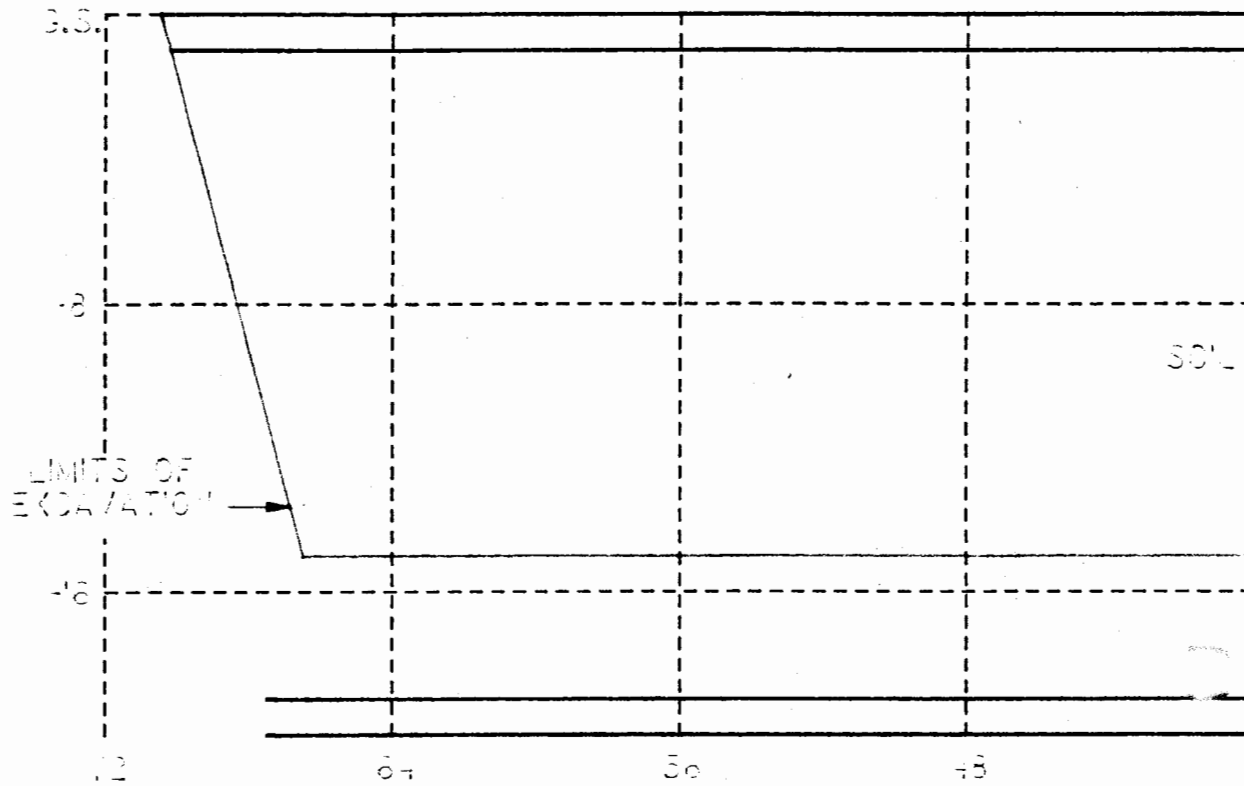
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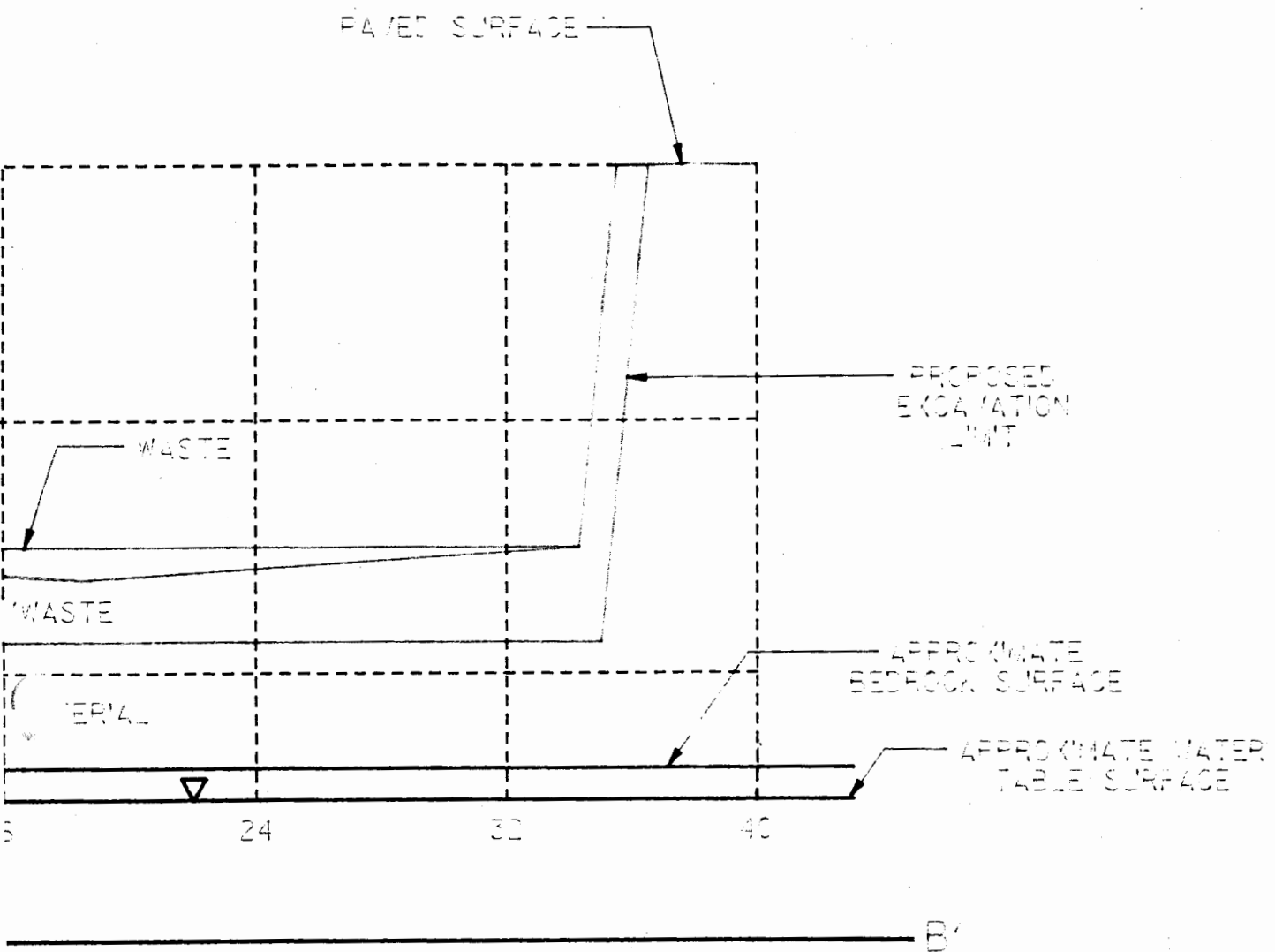
GENERAL SYSTEM
PENNSYLVANIA

CROSS SECTIONS SHOWING
PROPOSED POST - CLOSURE CONDITIONS
RESIDUAL WASTE STORAGE IMPOUNDMENT

DRAWING NO.
FIG. 2.1
SHEET NO.
SHT. 4
PROJECT NO.
65273



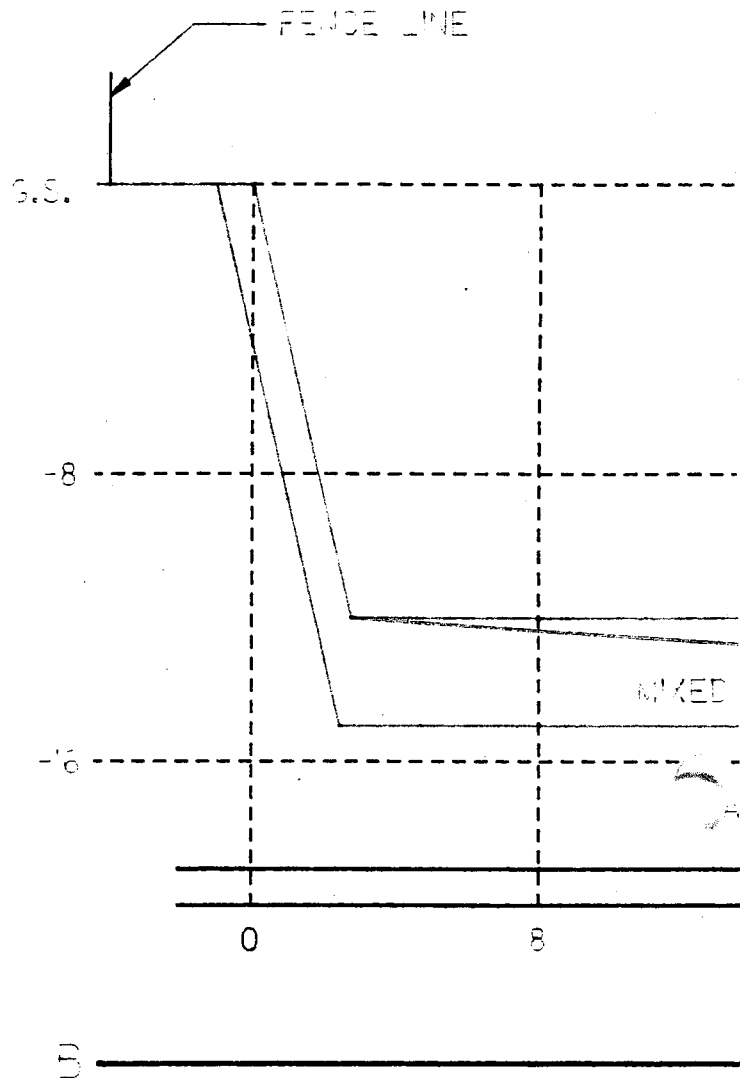
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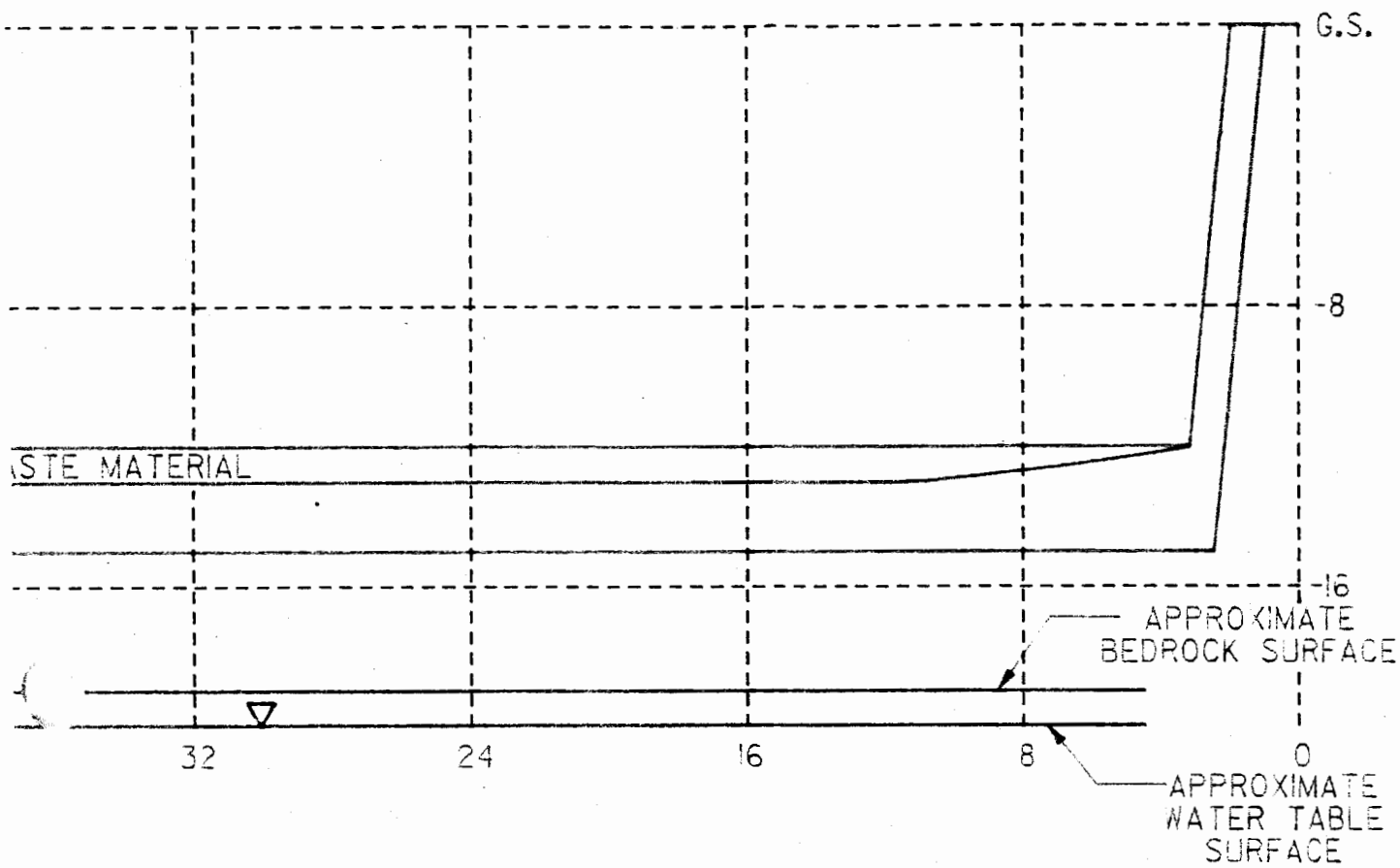
WATERAL SYSTEM
PENNSYLVANIA

CROSS SECTIONS SHOWING
EXISTING CONDITIONS, RESIDUAL
WASTE STORAGE IMPOUNDMENT

FIG. 2.1
SHEET NO.
SHT. 3
PROJECT NO.
65273



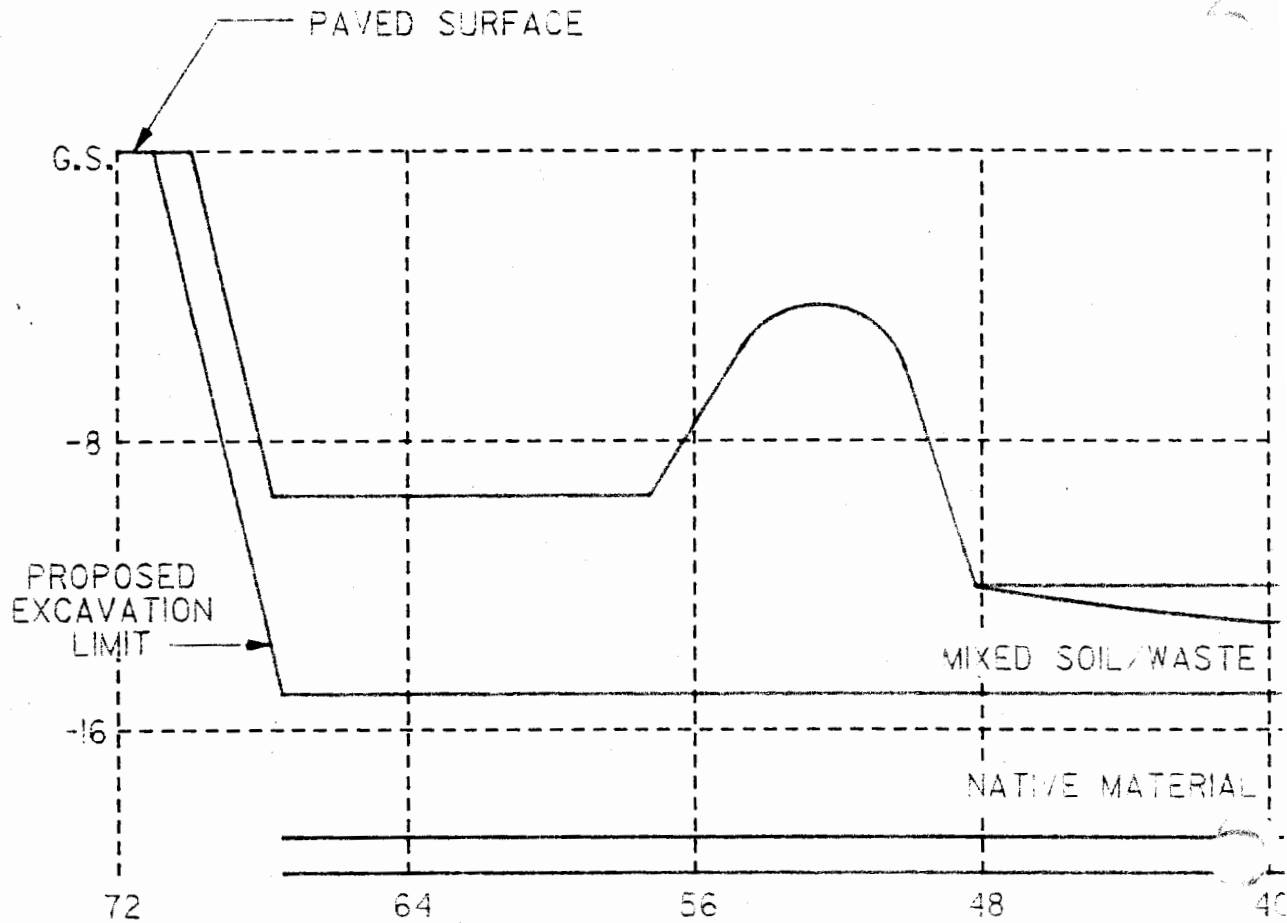
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RAL SYSTEM
PENNSYLVANIA

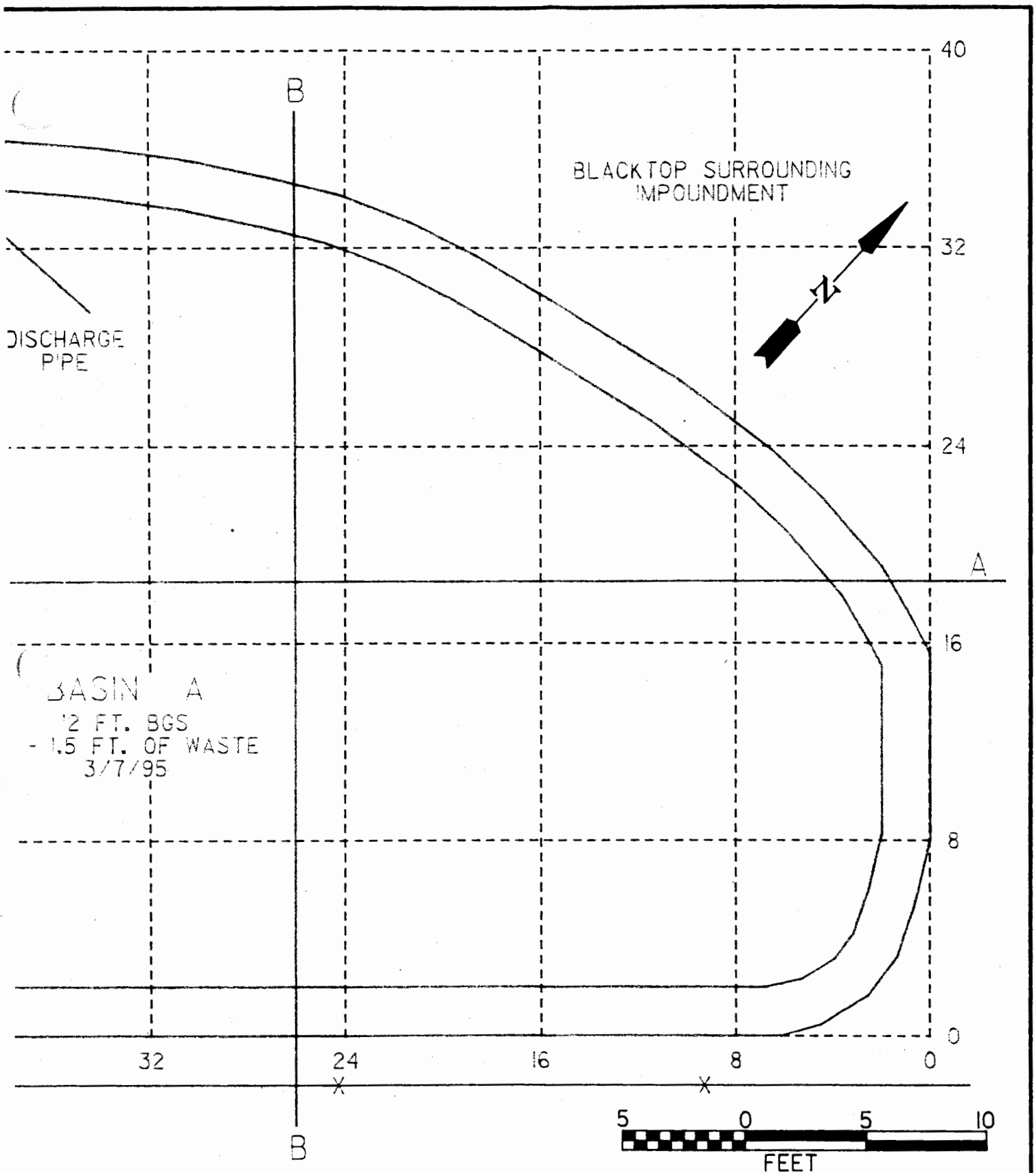
CROSS SECTIONS SHOWING
EXISTING CONDITIONS, RESIDUAL
WASTE STORAGE IMPOUNDMENT

DRAWING NO.
FIG. 2.1
SHEET NO.
SHT. 2
PROJECT NO.
65273



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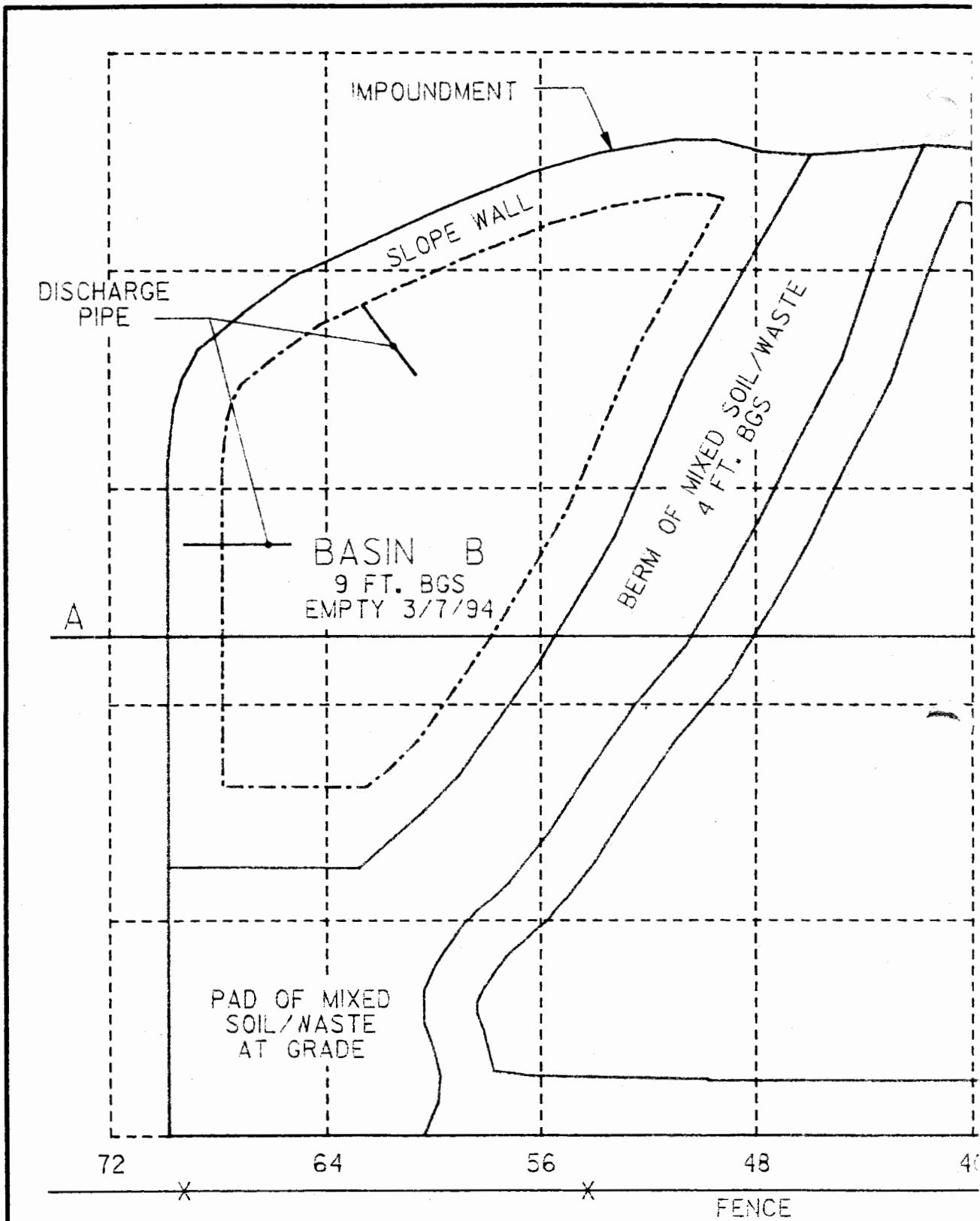
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GENERAL SYSTEM
PENNSYLVANIA

PLAN VIEW OF RESIDUAL
WASTE STORAGE IMPOUNDMENT

DRAWING NO.
FIG. 2.1
SHEET NO.
SHT. 1
PROJECT NO.
65273



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3.0 POST CLOSURE ACTIVITIES

3.1 Water Quality Monitoring

The groundwater monitoring plan presented in Appendix A will be implemented if either of the following occur:

- Concentrations of any analyzed parameter in soil exceeds the cleanup criteria at the water table interface.
- concentrations of any analyzed parameter in soil exceeds the cleanup criteria at the bedrock interface.

3.2 Erosion and Sedimentation control

Because the impoundment will be repaved, no separate post closure erosion and sedimentation control provisions will be required. Currently stormwater from this vicinity flows northwest toward Poor House Run. The incremental increases in runoff from less than 3,000 square feet of new pavement should not tax the current system.

3.3 Final Cover

As discussed in Section 2.2 the entire impoundment area will be repaved.

3.4 Access Control

The impoundment will be repaved to original grade, therefore access control is not a critical safety feature post-closure. The area is currently surrounded by a 6-foot high security fence and locked gate. During closure excavation, access will be limited to authorized employees and contractors only. All points of construction ingress and egress will be protected to prevent tracking mud onto public ways.

3.5 Funding

Allis Mineral Systems intends to perform closure and post-closure activities using internally generated funds. If required, a surety bond or collateral bond in an amount determined by the Department will be acquired.

APPENDIX A

GROUNDWATER MONITORING PLAN

GROUNDWATER MONITORING PLAN

INTRODUCTION

Buchart-Horn, Inc. is pleased to present this groundwater assessment plan for the closure of the physical laboratory storage impoundment at the Allis Mineral Systems Grinding Division facility, 240 Arch Street, York, Pennsylvania. The impoundment site is located within Spring Garden Township, York County. It is adjacent to the southeast property boundary. The purpose of the groundwater assessment plan is to physically and chemically characterize the groundwater which the lagoon may have impacted. The plan has been prepared in accordance with Section 289 - Residual Waste Storage Impoundments.

SOILS

According to the Soil Survey of York County, the native on-site soil is the Hagerstown silt loam, 3 to 8% slopes. Hagerstown soils are commonly found on uplands. They are deep and well-drained with a silt loam surficial layer. The subsoil is a clay loam to clay. During the 1992 sampling event, fill material was also encountered.

HYDROGEOLOGY

The underlying bedrock is reported to consist of shales from the Cambrian Kinzers Formation (J.P. Wilshusen, 1979). The shale member of the Kinzers Formation is commonly dark gray and weathers tan. The shales are fissile and often iron-stained. The depth to bedrock is anticipated to be approximately 20 feet below the ground surface. The average thickness of the Kinzers Formation is 200 feet.

According to the Pennsylvania Geological Survey Environmental Geology of the Greater York Area, York County, Pennsylvania, 1979, Environmental Geology Report 6, the majority of the water bearing zones are encountered within 200 feet below grade. The median yield of the wells was eleven gallons per minute (gpm). Yields ranged from two gpm to 111 gpm. The median hardness, derived from eight (8) samples, was seven grams/gallon. Hardness values ranged from three grams/gallon to twelve grams/gallon. Specific conductance ranged from 120 micro omhos/centimeter to 420 micro omhos/centimeter, with a median of 330 micro omhos/centimeter.

Depth to the water table is approximately 20 feet below grade. Upper aquifer is unconfined. The water table is believed to be a subdued replica of the topography. The groundwater gradient is controlled by the Codorus Creek, located approximately 1,000 feet to the northwest. Flow direction is west-northwest.

MONITORING WELLS

Four (4) groundwater monitoring wells will be installed. One well will be located upgradient of the lagoon. The remaining three will be located downgradient and within 200 feet of the impoundment. The proposed locations of the wells are shown on Figure 1.1.

Wells will be completed to a depth of five (5) to ten (10) feet below the water table. The anticipated depth of the well would be approximately 30 feet below grade. An estimated 15 feet of screen would be installed into the borehole to ensure that the screen saddles the seasonal high water table. The length of the screen should extend above the water table so that any potential contaminants which have a lower density than water can be detected. The screen and riser pipe will consist of Schedule 40 PVC piping. The well construction will adhere to the guidelines stated in Section 289.263 and described below:

§ 289.263 Standards for casing of wells.

- (a) Monitoring wells shall be cased as follows:
 - (1) The casing shall maintain the integrity of the monitoring well borehole, and shall be constructed of material that will not react with the groundwater being monitored.
 - (2) The minimum casing diameter shall be 4 inches unless otherwise approved by the Department in writing.
 - (3) The well shall be constructed with a screen that meets the following requirements:
 - (i) The screen shall be factory-made.
 - (ii) The screen may not react with the groundwater being monitored.
 - (iii) The screen shall maximize open area to minimize entrance velocities and allow rapid sample recovery.
 - (iv) The slot openings, design and screen diameter shall allow for effective well development.

- (4) The well shall be filter-packed with chemically inert clean quartz sand, silica or glass beads. The material shall be well rounded and dimensionally stable.
- (5) The casing shall protrude at least 1 foot above the ground, unless the Department has approved flush mount wells.
- (6) The annular space above the sampling depth shall be sealed to prevent contamination of samples and the groundwater.
- (7) If plastic casing is used, it shall be threaded to preclude potential sample contamination from solvent welded joints, unless otherwise provided by the Department in the permit.
- (b) Monitoring wells casings shall be enclosed in a protective casing that shall:
 - (1) Be of sufficient strength to protect the well from damage by heavy equipment and vandalism.
 - (2) Be installed for at least the upper 10 feet of the monitoring well, as measured from the well cap, with a maximum stick up of 3 feet, unless otherwise approved by the Department in writing.
 - (3) Be grouted and placed with a concrete collar at least 3 feet deep to hold it firmly in position.
 - (4) Be numbered for identification with a label capable of withstanding field conditions and painted in a highly visible color.
 - (5) Protrude at least 1 inch higher above grade than the monitoring well casing.
 - (6) Have a locked cap.
 - (7) Be made of steel or another material of equivalent strength.

We are requesting that the wells be provided with a locking cap and water tight manhole rather than casing that sticks up above the ground. The wells will be advanced in heavily traveled areas. The wells may be destroyed if heavy equipment runs into them.

SAMPLE COLLECTION

Monitoring wells will be sampled on a quarterly basis. The wells will be unlocked and uncapped and the water levels allowed to stabilize. The depth to the water table and the bottom of the well will be measured using an electronic well probe. At least three well

volumes, or until the well is dewatered, will be removed from each well to ensure that representative groundwater from the aquifer is obtained. The wells will be either hand-bailed using laboratory-decontaminated teflon bailers or will be pumped using a submersible pump. The water levels in the individual wells will be allowed to recover 75 percent before a sample is acquired.

Sample bottles will be marked with the sampling location, date, time, and collector(s) name. A laboratory-decontaminated teflon bailer will be used to pour the groundwater sample into the appropriate glassware. Samples will be stored in a chilled cooler and documented on a Chain-of-Custody form.

SAMPLE ANALYSIS

As defined in § 289.264, the parameters to be analyzed and the frequency which they will be sampled are shown on Table 1.

A field blank and a trip blank will be included for Quality Assurance/Quality Control purposes. The blanks will consist of analyte-free water obtained from the laboratory. The field blank will be poured through the same apparatus as the sample. It will also be analyzed for the same parameters as the sample. The trip blank will be analyzed for Volatile Organic Compounds only.

TABLE 1
SAMPLING PARAMETERS AND FREQUENCY

<u>PARAMETER</u>	<u>FREQUENCY</u>	<u>ANALYTICAL METHOD</u>
<u>Inorganics:</u>		
Ammonia-Nitrogen	Quarterly	EPA 350.2
Bicarbonate	Quarterly	Calculated
Calcium	Quarterly	EPA 200.7
Chloride	Quarterly	SM 407.A
Fluoride	Quarterly	EPA 340.2
Chemical Oxygen Demand	Quarterly	EPA 410.2
Nitrate-Nitrogen	Quarterly	SM 352.1
pH	Quarterly	EPA 150.1
Specific Conductivity	Quarterly	EPA 120.1
Sulfate	Quarterly	EPA 375.4
Total Alkalinity	Quarterly	EPA 310.1
Total Dissolved Solids	Quarterly	EPA 160.1
Total Organic Carbon	Quarterly	EPA 415.1
Turbidity	Quarterly	EPA 180.1
Iron	Quarterly	EPA 200.7
Manganese	Quarterly	EPA 200.7
Potassium	Quarterly	EPA 200.7
Sodium	Quarterly	EPA 200.7
<u>Metals (total and dissolved)</u>		
Barium	Annually	EPA 200.7
Cadmium	Annually	EPA 200.7
Chromium	Annually	EPA 200.7
Copper	Annually	EPA 200.7
Lead	Annually	EPA 200.7
Magnesium	Annually	EPA 200.7
Mercury	Annually	EPA 245.2
Selenium	Annually	EPA 200.7
Silver	Annually	EPA 200.7
Zinc	Annually	EPA 200.7
<u>Volatile Organic Compounds</u>		
Tetrachloroethene	Annually	EPA 624
Trichloroethene	Annually	EPA 624
1,1,1-Trichloroethane	Annually	EPA 624
1,2-Dibromoethane	Annually	EPA 624
1,1-Dichloroethene	Annually	EPA 624
1,2-Dichloroethene (cis and trans)	Annually	EPA 624
Vinyl Chloride	Annually	EPA 624
1,1-Dichloroethane	Annually	EPA 624
1,2-Dichloroethane	Annually	EPA 624
Methylene Chloride	Annually	EPA 624
Benzene	Annually	EPA 624
Toluene	Annually	EPA 624
Ethylbenzene	Annually	EPA 624
Xylenes	Annually	EPA 624

APPENDIX B

FORM T-3 (SUBMITTED NOVEMBER 1992)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Date Prepared/Revised

11/11/92

ID. Number

FORM T3
STATUS AND DESCRIPTION NOTICE
FOR

RESIDUAL WASTE STORAGE OR DISPOSAL IMPOUNDMENT

General Reference: 287.111

Instructions: Effective July 4, 1992 all residual waste impoundments are required to complete this form and submit it to the Department. An impoundment is a facility or part of a facility which is a natural topographic depression, man-made excavation, or diked area formed primarily of earthen materials although it may be lined with synthetic materials and which is designed to hold an accumulation of liquid wastes or wastes containing free liquids. The term includes holding, storage, treatment, settling and aeration pits, ponds and lagoons. The completed form is to be submitted to the Department by January 4, 1993.

For each of the following items, please provide the information required under Section 287.111 as listed below. The information should be attached on separate 8-1/2 x 11 sheets of paper. Be sure to identify as **STATUS AND DESCRIPTION NOTICE FOR RESIDUAL WASTE STORAGE OR DISPOSAL IMPOUNDMENT** and to which item the information applies. A separate form must be submitted for each impoundment.

Submit two copies of the completed form to the Department's applicable Regional Office for each impoundment. Additional copies may be requested by the Department.

Allis Mineral Systems, A Division of

Owners Name: Svedala Industries, Inc.Telephone Number: 717-843-8671Mailing Address: P.O. Box 15312Taxpayer ID Number: 39-1599801240 Arch StreetYork, PA 17405

Facility (Name and address):

Allis Mineral Systems, A Division ofSvedala Industries, Inc.P.O. Box 15312240 Arch StreetYork, PA 17405

Type Impoundment:

☒ Storage☐ Disposal

Last Solids Cleanout Date:

June 1992

Annual Rate of Solid Accumulation:

48"

Depth in Inches

Permit ID Number:

BWM N/ABWQC N/A

Other _____

Date issued:

Clean Out Frequency:

Annually

Size of Impoundment:

.062 acres

Contents: (As a minimum the following information must be submitted as part of this notice.)

1. A statement of whether the operator plans to file a permit application consistent with this Article or a closure plan consistent with this Article, or, for storage impoundments, whether the operator plans to upgrade a storage impoundment to comply with this article as part of a permit under the Clean Streams Law. Section 287.111(b)(7).
2. A brief description of the type and weight or volume of waste being processed, stored, or disposed annually at the impoundment, the type and weight or volume of waste previously processed, stored, or disposed at the impoundment, and the process that generated the waste. Section 287.111(b)(1).
3. A brief description of the impoundment, including size and capacity, and the number, type, and design of any liners that are placed at the impoundment. Section 287.111(b)(2).

FORM T3

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4. For each type of waste stored, processed, or disposed at the impoundment, an analysis of the waste that meets the requirements of Section 287.132 (relating to chemical or leaching analyses) that have been performed on the waste.
5. A description of any leachate collection and treatment systems at the impoundment. Section 287.111(b)(4).
6. The results of surface water or groundwater monitoring, sampling, and analysis that have been performed for the impoundment. Section 287.111(b)(5).
7. A description of the manner in which solid materials are managed in the impoundment, including the frequency of solids removal, the frequency with which the impoundment is emptied, and an estimate of the volume of solids removed from the impoundment annually. Section 287.111(b)(6)(i).
8. A statement of whether the facility is a storage impoundment or a disposal impoundment under Section 299.113 (relating to duration of storage), including data or information to support the statement. Section 287.111(b)(6)(ii).
9. For existing storage and disposal impoundments, a bond as outlined in Section 287.312.
10. Except for residual waste storage impoundments, a water quality monitoring plan that meets the requirements of this article. The plan shall include at least one quarter of data, which does not need to be highest local groundwater levels. Groundwater monitoring data for each subsequent quarter shall be submitted to the Department as soon as the data is available. An operator of a residual waste storage impoundment submit a water quality monitoring plan that meets the requirements of this article with this notice.
11. A description of the types of actual or potential air emissions from the facility. Section 287.111(b)(10).
12. A statement of whether the facility is covered by any other permit issued under this Act or the environmental protection acts, and the type of permit, permit number, and issuing agency, if applicable. Section 287.111(b)(11).
13. If the facility was not permitted under the Act or the Clean Streams Law on the effective date of these regulations, information showing whether the siting of the facility is prohibited by Sections 289.422, 289.522, or 299.144(a)(8), whichever is applicable. Section 287.11(B)(12).
14. Information on solids accumulated in the impoundment to include: annual rate of solids accumulation, cleanout frequency, when last cleaned out, the amount removed and how disposed.

FORM T3

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Certification of Owner/Operator

This is to certify that I have personally examined and am familiar with the information submitted in this and all attached documents. I am aware of the Department of Environmental Resources' requirements for this facility. To the best of my knowledge, information, and belief, the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

Name _____

Title _____

Signature _____

Affiliation _____

Date _____

Address _____

Telephone No. _____

**ATTACHMENT TO FORM T3
STATUS AND DESCRIPTION NOTICE
FOR
RESIDUAL WASTE STORAGE OR DISPOSAL IMPOUNDMENT**

**OWNER - SVEDALA INDUSTRIES, INC.
240 ARCH STREET
YORK, PENNSYLVANIA**

TYPE IMPOUNDMENT - STORAGE

The following information corresponds to the numbered "contents" found on Page 1 and 2 of Form T3.

1. Svedala Industries, Inc., plans to submit a closure plan consistent with this article. The requirement for the storage lagoon will be eliminated by a dewatering system currently being designed.
2. Allis Mineral Systems Grinding Division, Svedala Industries, Inc., is the leading manufacturer of size reduction equipment for the mining and industrial minerals industries. Their product line consists of Ball, Rod, Pebble, Autogenous, Semi-Autogenous, and Verti-Mills. This equipment reduces the particle size of ores, industrial minerals, etc. to prepare them for downstream processes.

In order to design and size the equipment which is supplied by Svedala Industries, Inc., some basic design information is required. In order to obtain this information, it is common to have potential clients send samples of the materials for physical testing, mainly as to hardness or resistance to grinding. These samples may consist of a few pounds to several hundred tons. The samples are run through lab size equipment where water may be added to aid the grinding process. (No other chemicals are added.) The particle size of the material is reduced in the grinding mill, but no effort is made to effect any chemical change to the materials. During the grinding test, samples are collected of the material being processed and the excess material is pumped to the lagoon area where the water can evaporate from the soils. Attachment A is a schematic drawing showing this process.

3. The storage lagoon is approximately 67 ft. x 40 ft. x 12 ft. deep. The lagoon is unlined. (See site sketch, Attachment B)
4. Attachment C includes two Module 1 analyses dated June 25, 1991 and December 12, 1991 of waste stored in the lagoon. The purpose of this analytical work was to determine suitability for land disposal. The waste was determined to be non-hazardous and was subsequently accepted by Modern Landfill, a municipal waste landfill in York County, Pennsylvania.

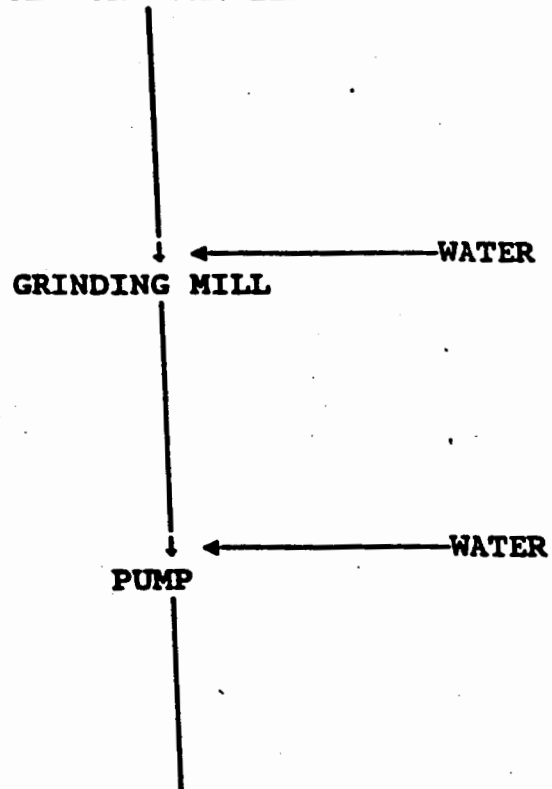
5. No leachate collection or treatment exists.
6. No monitoring wells presently are located on site.
7. The material in the lagoon presently is approved for disposal under a Module 1, with the State and Modern Landfill. The lagoon is dredged out on an annual basis. Only 100-150 Cu. Yds. of material is typically removed.
8. The facility in question is considered a storage lagoon because materials placed in the lagoon are removed on at least an annual basis and disposed of at an approved facility.
9. Svedala Industries, Inc., will supply a surety bond or collateral bond in an amount determined by the Department.
10. If requested by PADER, Svedala Industries, Inc., will submit a Water Quality Monitoring Plan that meets the requirements of this article. Attachment D contains analytical results from native soil beneath the fill material. The "A" samples were acquired from the top of the native soil while the B samples were collected three feet below. The significant reduction in chemical concentrations from the deeper samples indicates that very little leaching has taken place. Based on this information, it appears unlikely that significant groundwater degradation would have occurred.
11. Because the stored waste is crushed rock, no chemical releases to the atmosphere would be anticipated, additionally the crushed ore is mixed with water during the grinding process eliminating the potential for airborne particulates.
12. Svedala Industries, Inc., is not aware of any former or existing permit covering this facility.
13. To determine whether the siting of this facility is prohibited, Section 299.144(a)(8) applies. This in turn, references Section 289.522(a)(2)(7) and (10). The storage impoundment located at Svedala Industries, Inc., would not be prohibited under these requirements.
14. Annual accumulation of solids varies but has not exceeded 150 Cu. Yds. in recent history. The storage lagoon was most recently cleaned out in June of 1992. At that time, 40 Cu. Yds. were removed and disposed of at Modern Landfill. Svedala Industries, Inc., is currently seeking approval under their module 1 to remove an estimated 1,100 cu. yds. of existing solids in the impoundment.

ATTACHMENT A
PROCESS SCHEMATIC

PROCESS WHICH GENERATES THE WASTE

(Svedala Industries, Inc.)
(TEST PLANT)

COARSE ORE SAMPLES

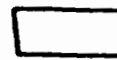


LAGOON AREA
FOR WATER EVAPORATION

ATTACHMENT C
MOD 1 ANALYSES

SPECIAL WASTE ANALYSIS REPORT

This Report is intended for the sole use and benefit of Waste Management and its companies. No representation concerning significance of the reported data is made to any other person or entity.



1 1 3 4 5 9
FROM SAMPLE CONTAINER

LABORATORY NAME: RMC Environmental Services

5911202.001

ADDRESS 88 Robinson Street Pottstown, PA 19464

LABOR PHONE (215) 327-4850

DATE SAMPLE RECEIVED AT LAB 12-12-91

DATE SAMPLE TAKEN: 11-21-91 @ 1000

LAB SAMPLE NUMBER ASSIGNED 10442 MPSI-ORE GRINDING LAGOON SLUDGE

CERTIFICATION OF REP SAMPLE OBTAINED ☐ YES ☒ NO

CERTIFICATION Except as explicitly noted, all analytical data reported herein were obtained under my direction and supervision, using sample preparation and analytical methods and analytical equipment specified or approved in the most recent "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods" SW-846, USEPA Office of Solid Waste. This laboratory follows a quality assurance control program including a sample chain of custody procedure.

DATE OF REPORT: 12-30-91

SIGNATURE

B. Chris Weatherington

LAB MANAGER NAME: B. Chris Weatherington

PHYSICAL CHARACTERISTICS OF WASTE

SAMPLE VOLUME	COLOR	ODOR <input type="checkbox"/> NONE <input checked="" type="checkbox"/> MILD <input type="checkbox"/> STRONG	PHYSICAL STATE @ 70°F	LAYERS <input type="checkbox"/> MULTILAYERED <input type="checkbox"/> BILAYERED <input checked="" type="checkbox"/> SINGLE PHASED	FREE LIQUIDS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2 1/2 LBS.	BLACK		<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMISOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> POWDER		
		DESCRIBE			VOLUME

Repl	Parameter	Result	RCRA LIMITS	Date Anal Completed	Analyst	Method
1	ANTIMONY, TOTAL (TCLP)	<0.01 MG/L		12/26/91	BAK	EPA 7040
1	✓ ARSENIC, TOTAL	2.8 MG/KG		12/18/91	EAF	EPA 7060
1	ARSENIC, TOTAL (TCLP)	<0.1 MG/L	5.0 MG/L	12/18/91	BAK	EPA 7060
1	✓ BARIUM, TOTAL	490 MG/KG		12/17/91	LMS	EPA 7080
1	BARIUM, TOTAL (TCLP)	<0.5 MG/L	100.0 MG/L	12/18/91	LMS	EPA 7080
1	CADMIUM, TOTAL	2.8 MG/KG		12/13/91	EAF	EPA 7131
1	CADMIUM, TOTAL (TCLP)	<0.05 MG/L	1.0 MG/L	12/18/91	BAK	EPA 7131
1	CHROMIUM, HEXAVALENT, TOTAL (TCLP)	0.009 MG/L		12/23/91	EAF	EPA 7197
1	CHROMIUM, TOTAL	6.2 MG/KG		12/17/91	EAF	EPA 7191
1	CHROMIUM, TOTAL (TCLP)	<0.05 MG/L	5.0 MG/L	12/18/91	BAK	EPA 7191
1	✓ COPPER, TOTAL	1150 MG/KG		12/17/91	EAF	EPA 7210, 7211
1	COPPER, TOTAL (TCLP)	1.6 MG/L		12/26/91	JNO	EPA 7210, 7211
1	LEAD, TOTAL	64 MG/KG		12/18/91	EAF	EPA 7421
1	LEAD, TOTAL (TCLP)	0.12 MG/L	5.0 MG/L	12/18/91	BAK	EPA 7421
1	MERCURY, TOTAL	<0.07 MG/KG		12/18/91	LMS	EPA 7470, 7471
1	MERCURY, TOTAL (TCLP)	<0.0002 MG/L	0.2 MG/L	12/18/91	LMS	EPA 7470, 7471
1	MOLYBDENUM, TOTAL	<10 MG/KG		12/18/91	EAF	EPA 7481
1	MOLYBDENUM, TOTAL (TCLP)	<0.5 MG/L		12/18/91	EAF	EPA 7481
1	NICKEL, TOTAL	15 MG/KG		12/18/91	EAF	EPA 249.2
1	NICKEL, TOTAL (TCLP)	0.10 MG/L		12/26/91	JCD	EPA 249.2
1	SELENIUM, TOTAL	0.5 MG/KG		12/23/91	EAF	EPA 7740
1	SELENIUM, TOTAL (TCLP)	<0.1 MG/L	1.0 MG/L	12/18/91	BAK	EPA 7740
1	SILVER, TOTAL	2.6 MG/KG		12/13/91	EAF	EPA 7760
1	SILVER, TOTAL (TCLP)	<0.05 MG/L	5.0 MG/L	12/18/91	BAK	EPA 7760
1	ZINC, TOTAL	420 MG/KG		12/15/91	LMS	EPA 7950
1	ZINC, TOTAL (TCLP)	0.20 MG/L		12/19/91	LMS	EPA 7950
1	AMMONIA-NITROGEN (WATER LEACHATE)	7.8 MG/L		12/19/91	ABB	EPA 350.1
1	CHEMICAL OXYGEN DEMAND-H2O LEACHATE	42 MG/L		12/16/91	LAC	EPA 410.4
1	CYANIDE, TOTAL (MACRO DIST.)	<0.05 MG/KG		12/17/91	ABB	EPA 335.3
1	CYANIDE, TOTAL (WATER LEACHATE)	<0.005 MG/L		12/18/91	ABB	EPA 9012

Approved By:

Twila E. Dixon

Twila E. Dixon

Laboratory Operations Manager

SPECIAL WASTE ANALYSIS REPORT

This Report is intended for the sole use and benefit of Waste Management and its companies.
No representation concerning significance of the reported data is made to any other person or entity.



WASTE ANALYSIS SHEET CODE
11134E
FROM SAMPLE CONTAINER

LABORATORY NAME: RMC Environmental Services S911202.001

ADDRESS 88 Robinson Street Pottstown, PA 19464 LABOR PHONE (215) 327-4850

DATE SAMPLE RECEIVED LAB 12-12-91 DATE SAME TAKEN: 11-21-91 @ 1000

LAB SAMPLE NUMBER ASSIGNED 10442 MPSI-ORE GRINDING LAGOON SLUDGE CERTIFICATION OF REP SAMPLE OBTAINED? ☐ YES ☒ NO

CERTIFICATION: Except as explicitly noted, all analytical data reported herein were obtained under my direction and supervision, using sample preparation and analytical methods and analytical equipment specified or approved in the most recent "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," SW-846, USEPA Office of Solid Waste. The laboratory follows a quality assurance control program including a sample chain of custody procedure.

DATE OF REPORT: 12-30-91 SIGNATURE B. Chris Weatherington

LAB MANAGER NAME: B. Chris Weatherington

PHYSICAL CHARACTERISTICS OF WASTE

SAMPLE VOLUME	COLOR	ODOR: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> MILD <input type="checkbox"/> STRONG	PHYSICAL STATE @ 70°F <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMISOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> POWDER	LAYERS <input type="checkbox"/> MULTILAYERED <input type="checkbox"/> BILAYERED <input checked="" type="checkbox"/> SINGLE PHASED	FREE LIQUIDS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO VOLUME
2 1/2 LBS.	BLACK				

Repl	Parameter	Result	RCRA LIMITS	Date Anal Completed	Analyst	Method
1	PHENOLICS (TCLP)	0.066 MG/L		12/19/91	ABB	EPA 420.2
1	POLYCHLORINATED BIPHENYLS (SOLID)	<160 UG/KG		12/18/91	SDF	EPA 8080
1	HEATING VALUE	3170 BTU/LB		12/19/91	*	EPA D3286 P1.2c
1	OIL + GREASE (SOLID)	320 MG/KG		12/23/91	VLJ	EPA 9070, 9071, 4
1	OIL + GREASE (WATER LEACHATE)	<1 MG/L		12/16/91	JMA	EPA 9170, 413.1
1	BORON (TCLP)	<0.1 MG/L		12/19/91	BAK	SM 404A
1	CARBON, TOTAL ORGANIC (WATER LEACH)	8.3 MG/L		12/17/91	SPK	EPA 415.1
1	CORROSIVITY	NOT CORROSIVE		12/16/91	LAC	SW846, SEC 7.2.1
1	IGNITABILITY (SOLID)	NOT IGNITABLE		12/18/91	JCD	ASTM D-4982-B9
1	PAINT FILTER TEST	NO FREE LIQUIDS		12/16/91	LAC	EPA 9095
1	PH (SOLID)	12.49 STANDARD	2-12.5 STANDARD	12/17/91	LAC	EPA 9045
1	PH (TCLP - NON-VOLATILE)	12.65 STANDARD		12/13/91	JCD	EPA 9040, 9045
1	PH (WATER LEACHATE)	12.90 STANDARD		12/13/91	LB	EPA 9040
1	REACTIVITY	NOT REACTIVE		12/23/91	CH	SW846, SEC 7.3
1	REACTIVITY: CYANIDE	<1 MG/KG	250 MG/KG	12/17/91	ABB	SW846, SEC 7.3
1	REACTIVITY: SULFIDE	<50 MG/KG	500 MG/KG	12/18/91	KAJ	SW846, SEC 7.3
1	TCLP SETUP - NON-VOLATILES	COMPLETED		12/13/91	JCD	EPA 1311
1	TOTAL DISSOLVED SOLIDS-H2O LEACHATE	1530 MG/L		12/23/91	DMK	EPA 160.1
1	TOTAL ORGANIC HALOGENS	<50 MG/KG		12/17/91	SPK	EPA 9020/3050
1	TOTAL ORGANIC HALOGENS (WATER LEACH)	33 UG/L		12/19/91	SPK	EPA 9020
1	TOTAL SOLIDS	783000 MG/KG		12/26/91	DMK	EPA 160.3
1	TOTAL SOLIDS (WATER LEACHATE)	1530 MG/L		12/23/91	DMK	EPA 209A
1	TOTAL VOLATILE SOLIDS	243000 MG/KG		12/26/91	DMK	EPA 160.4
1	TOTAL VOLATILE SOLIDS (WATER LEACH)	208 MG/L		12/23/91	DMK	EPA 160.4
1	WATER LEACHATE SET UP	COMPLETED		12/13/91	LB	ASTM D3987-85

Approved By:

Twila E. Dixon

Twila E. Dixon
Laboratory Operations Manager

* This analysis was subcontracted

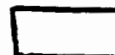


SPECIAL WASTE ANALYSIS REPORT

This Report is intended for the sole use and benefit of Waste Management and its companies.
No representation concerning significance of the reported data is made to any other person or entity.



WASTE PROFILE SHEET CODE



1.1.3.4.8.9

FROM SAMPLE CONTAINER

LABORATORY NAME: BMC Environmental Services

5910619.017

ADDRESS: 88 Robinson Street Pottstown, PA 19464

LAB MGR. PHONE: (215) 327-4850

DATE SAMPLE RECEIVED AT LAB: 6-25-91

DATE SAMPLE TAKEN: 6-17-91 @ 1100

LAB SAMPLE NUMBER ASSIGNED: 5045 MINERAL PROCESSING SYSTEMS-LAGOON SLUDGE

CERTIFICATION OF REP. SAMPLE OBTAINED? ☐ YES ☒ NO

CERTIFICATION: Except as explicitly noted, all analytical data reported herein were obtained under my direction and supervision, using sample preparation and analytical methods and analytical equipment specified or approved in the most recent "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," SW-846, USEPA Office of Solid Waste. This laboratory follows a quality assurance control program, including a sample chain of custody procedure.

DATE OF REPORT: 7-9-91

SIGNATURE

LAB MANAGER NAME: B. Chris Weatherington

B. Chris Weatherington

PHYSICAL CHARACTERISTICS OF WASTE

SAMPLE VOLUME	COLOR	ODOR: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> MILD <input type="checkbox"/> STRONG	PHYSICAL STATE @ 70°F <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> POWDER	LAYERS <input type="checkbox"/> MULTILAYERED <input type="checkbox"/> BILAYERED <input checked="" type="checkbox"/> SINGLE PHASED	FREE LIQUIDS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO VOLUME %
4 LBS.	BROWN				

Repl	Parameter	Result	Date Anal Completed	Analyst	Method
1	ANTIMONY, TOTAL (TCLP)	<0.01 MG/L	07/04/91	BAK	EPA 7040
1	ARSENIC, TOTAL	17 MG/KG	07/05/91	BAK	EPA 7060
1	ARSENIC, TOTAL (TCLP)	<0.002 MG/L	07/05/91	BAK	EPA 7060
1	BARIUM, TOTAL	230 MG/KG	07/04/91	LMS	EPA 7080
1	BARIUM, TOTAL (TCLP)	<0.5 MG/L	07/04/91	LMS	EPA 7080
1	CADMIUM, TOTAL	2.1 MG/KG	07/05/91	BAK	EPA 7131
1	CADMIUM, TOTAL (TCLP)	<0.05 MG/L	07/01/91	BAK	EPA 7131
1	CHROMIUM, HEXAVALENT, TOTAL (TCLP)	<0.002 MG/L	07/08/91	BAK	EPA 7197
1	CHROMIUM, TOTAL	8.0 MG/KG	06/26/91	JNO	EPA 7191
1	CHROMIUM, TOTAL (TCLP)	<0.05 MG/L	07/01/91	JNO	EPA 7191
1	COPPER, TOTAL	1350 MG/KG	06/26/91	JNO	EPA 7210, 7211
1	COPPER, TOTAL (TCLP)	0.44 MG/L	07/03/91	BAK	EPA 7210, 7211
1	LEAD, TOTAL	220 MG/KG	07/01/91	JNO	EPA 7421
1	LEAD, TOTAL (TCLP)	<0.1 MG/L	07/01/91	JNO	EPA 7421
1	MERCURY, TOTAL	<0.07 MG/KG	07/02/91	BAK	EPA 7470, 7471
1	MERCURY, TOTAL (TCLP)	<0.0002 MG/L	07/02/91	BAK	EPA 7470, 7471
1	MOLYBDENUM, TOTAL	32 MG/KG	07/01/91	JNO	EPA 7481
1	MOLYBDENUM, TOTAL (TCLP)	0.05 MG/L	07/01/91	JNO	EPA 7481
1	NICKEL, TOTAL	33 MG/KG	06/26/91	JNO	EPA 249.2
1	NICKEL, TOTAL (TCLP)	0.14 MG/L	07/08/91	BAK	EPA 249.2
1	SELENIUM, TOTAL	0.3 MG/KG	07/08/91	BAK	EPA 7740
1	SELENIUM, TOTAL (TCLP)	<0.002 MG/L	07/01/91	JNO	EPA 7740
1	SILVER, TOTAL	<5 MG/KG	07/05/91	BAK	EPA 7760
1	SILVER, TOTAL (TCLP)	<0.05 MG/L	07/05/91	BAK	EPA 7760
1	ZINC, TOTAL	1690 MG/KG	07/05/91	LMS	EPA 7950
1	ZINC, TOTAL (TCLP)	2.24 MG/L	07/02/91	LMS	EPA 7950
1	AMMONIA-NITROGEN (WATER LEACHATE)	0.039 MG/L	06/27/91	ABB	EPA 350.1
1	CHEMICAL OXYGEN DEMAND-H2O LEACHATE	19 MG/L	06/28/91	LAC	EPA 410.4
1	CYANIDE, TOTAL (MACRO DIST.)	0.08 MG/KG	07/08/91	ABB	EPA 335.3
1	CYANIDE, TOTAL (WATER LEACHATE)	<0.005 MG/L	06/28/91	ABB	EPA 9012

Approved By:

Twila E. Dixon

Twila E. Dixon

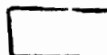
Assistant Laboratory Manager

SPECIAL WASTE ANALYSIS REPORT

This Report is intended for the sole use and benefit of Waste Management and its companies. No representation concerning significance of the reported data is made to any other person or entity.



WASTE MANAGEMENT SHEET CODE



1,1,1,3,4,6,9
FROM SAMPLE CONTAINER

LABORATORY NAME: RMC Environmental Services

S910619.017

13: 88 Robinson Street Pottstown, PA 19464

LABOR PHONE: (215) 327-4850

DATE SAMPLE RECEIVED AT LAB 6-25-91

DATE SAMPLE TAKEN: 6-17-91 @ 1100

LAB SAMPLE NUMBER ASSIGNED 5045 MINERAL PROCESSING SYSTEMS-LAGOON SLUDGE

CERTIFICATION OF REP. SAMPLE OBTAINED? ☐ YES ☐ NO

CERTIFICATION: Except as explicitly noted, all analytical data reported below were obtained under my direction and supervision, using sample preparation and analytical methods and analytical equipment specified or approved in the most recent "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," SW-846, USEPA Office of Solid Waste. This laboratory follows a quality assurance control program, including a sample chain of custody procedure.

DATE OF REPORT: 7-9-91

SIGNATURE

LAB MANAGER NAME: B. Chris Weathinton

PHYSICAL CHARACTERISTICS OF WASTE

SAMPLE VOLUME 4 LBS.	COLOR BROWN	ODOR: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> MILD <input type="checkbox"/> STRONG	PHYSICAL STATE @ 70°F <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> POWDER	LAYERS <input type="checkbox"/> MULTILAYERED <input type="checkbox"/> BILAYERED <input checked="" type="checkbox"/> SINGLE PHASED	FREE LIQUIDS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO VOLUME %
-----------------------------	--------------------	---	---	--	---

Repl	Parameter	Result	Date Anal Completed	Analyst	Method
1	PHENOLICS (TCLP)	0.06 MG/L	07/01/91	ABB	EPA 420.2
1	POLYCHLORINATED BIPHENYLS (SOLID)	<2400 UG/KG	07/08/91	JAI	EPA 8080
1	CORROSIVITY	NOT CORROSIVE	06/26/91	LAC	SUB46, SEC 7.2.1A
1	PH (SOLID)	8.66 STANDARD	06/26/91	LAC	EPA 9045
1	PH (WATER LEACHATE)	9.96 STANDARD	06/27/91	USP	EPA 9040
1	HEATING VALUE	83 BTU/LB	07/05/91	*	EPA D3786 PT.76
1	OIL + GREASE (WATER LEACHATE)	<1 MG/L	07/01/91	CLM	EPA 9170, 413.1 (IR)
	OIL AND GREASE (SOLID)	467 MG/KG	07/01/91	VLJ	EPA 9070, 9071, 413.2 (C)
	BORON (TCLP)	0.23 MG/L	07/01/91	KAJ	SH 404A
1	CARBON, TOTAL ORGANIC (WATER LEACH)	1.9 MG/L	07/02/91	SPK	EPA 415.1
1	IGNITABILITY (SOLID)	NOT IGNITABLE	06/29/91	CH	ASTM D-4982-89A
1	PAINT FILTER TEST	NO FREE LIQUIDS	06/26/91	LAC	EPA 9095
1	PH (TCLP - NON-VOLATILE)	6.23 STANDARD	06/27/91	JEC	EPA 9040, 9045
1	REACTIVITY	NOT REACTIVE	06/29/91	CH	SUB46, SEC 7.3
1	REACTIVITY: CYANIDE	<1 MG/KG	06/28/91	ABB	SUB46, SEC 7.3
1	REACTIVITY: SULFIDE	<50 MG/KG	06/27/91	KAJ	SUB46, SEC 7.3
1	TCLP SETUP - NON-VOLATILES	COMPLETED	06/27/91	USP	EPA 1311
1	TOTAL DISSOLVED SOLIDS-W20 LEACHATE	96 MG/L	06/27/91	DMK	EPA 160.1
1	TOTAL ORGANIC HALOGEN (WATER LEACH)	52 UG/L	07/02/91	SPK	EPA 9020
1	TOTAL ORGANIC HALOGENS	<50 MG/KG	07/03/91	SPK	EPA 9020
1	TOTAL SOLIDS	997000 MG/KG	06/28/91	DMK	EPA 160.3
1	TOTAL SOLIDS (WATER LEACHATE)	96 MG/L	06/27/91	DMK	EPA 209A
1	TOTAL VOLATILE SOLIDS	10800 MG/KG	06/28/91	DMK	EPA 160.4
1	TOTAL VOLATILE SOLIDS (WATER LEACH)	60 MG/L	06/27/91	DMK	EPA 160.4
1	WATER LEACHATE SET UP	COMPLETED	06/27/91	USP	ASTM D3987-85

Approved By:

Tulla E. Dixon

Tulla E. Dixon

Assistant Laboratory Manager

* This analysis was subcontracted



B-H LABORATORIES

976 Loucks M. Road
York, PA 17402-1999
717 843 5561
FAX 717 852 6923

Laboratory Certified By
Department of Environmental Resources #67042

Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Chuck Kinney

FROM: Scott Brunk

DATE: September 25, 1992

RE : Sample #SSD928793
MPSI - BP-1A

Collected/Delivered 9/14/92 @ 0840 Hours By T. Blauch

ANALYSIS	RESULTS	UNITS
Arsenic, Total	<2.5	mg/kg
Barium, Total	51	mg/kg
Copper, Total	3100	mg/kg
Lead, Total	35	mg/kg
Zinc, Total	210	mg/kg
Residue, Total	74.8	%
Total Petroleum Hydrocarbon	99	mg/kg

CERTIFIED



All analyses are performed in accordance with procedures outlined in Standard Methods
for the Examination of Water and Waste Water 16th Edition, published by the American
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York, PA 17402-1999
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Department of Environmental Resources #67042
Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Chuck Kinney

FROM: Scott Brunk

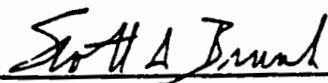
DATE: September 25, 1992

RE : Sample #SSD928794
MPSI - BP-2A

Collected/Delivered 9/14/92 @ 0900 Hours By T. Blauch

<u>ANALYSIS</u>	<u>RESULTS</u>	<u>UNITS</u>
Arsenic, Total	1.7	mg/kg
Barium, Total	55	mg/kg
Copper, Total	3800	mg/kg
Lead, Total	87	mg/kg
Zinc, Total	2400	mg/kg
Residue, Total	88.6	%
Total Petroleum Hydrocarbon	93	mg/kg

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Department of Environmental Resources #67042
Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Chuck Kinney

FROM: Scott Brunk

DATE: September 25, 1992

RE : Sample #SSD928796

MPSI - BP-1B

Collected/Delivered 9/14/92 @ 0850 Hours By T. Blauch

ANALYSIS	RESULTS	UNITS
Residue, Total	69.3	%
Total Petroleum Hydrocarbon	<58	mg/kg

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Scott Brunk



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York, PA 17402-1999
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FAX 717 852 8923

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Environmental Laboratories

TO : Chuck Kinney

FROM: Scott Brunk

DATE: September 25, 1992

RE : Sample #SSD928797
MPSI - BP-3B

Collected/Delivered 9/14/92 @ 0945 Hours By T. Blauch

ANALYSIS	RESULTS	UNITS
Residue, Total	83.2	%
Total Petroleum Hydrocarbon	<58	mg/kg

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Scott A Brunk



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978 Loucks Mill Road
York PA 17402-1999
717 643 5561
FAX 717 652 8923

Laboratory Certified By
Department of Environmental Resources #67042
Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Chuck Kinney

FROM: Scott Brunk

DATE: September 25, 1992

RE : Sample #SSD928795
MPSI - BP-3A

Collected/Delivered 9/14/92 @ 0930 Hours By T. Blauch

ANALYSIS	RESULTS	UNITS
Arsenic, Total	5.0	mg/kg
Barium, Total	24	mg/kg
Copper, Total	26	mg/kg
Lead, Total	26	mg/kg
Zinc, Total	100	mg/kg
Residue, Total	85.4	%
Total Petroleum Hydrocarbon	120	mg/kg

CERTIFIED

Scott A Brunk



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978 Loucks Mill Road
York, PA 17402-1999
717 843 5561
FAX 717 852 8923

Laboratory Certified By
Department of Environmental Resources #67042

Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Teresa Blauch

FROM: Scott Brunk

DATE: October 20, 1992

RE : Sample #SSD929302 - BP-1B
MPSI

Collected 9/14/92 @ 0850 Hours By T.A.B.
Delivered 10/1/92 By T.A.B.

ANALYSIS	RESULTS	UNITS
Residue, Total	58.9	%
Copper, Total	320	mg/kg
Lead, Total	17	mg/kg
Zinc, Total	17	mg/kg

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for the Examination of Water and Waste Water, 16th Edition, published by the American
Public Health Association, unless otherwise indicated.



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B-H LABORATORIES

975 Jackson Mill Road
York, PA 17402-1999
Tel 843 5561
Fax 717 852 8923

Laboratory Certified By
Department of Environmental Resources #67042
Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Teresa Blauch

FROM: Scott Brunk

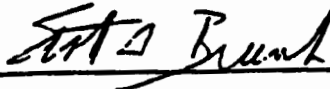
DATE: October 20, 1992

RE : Sample #SSD929303 - BP-3B
MPSI

Collected 9/14/92 @ 0945 Hours By T.A.B.
Delivered 10/1/92 By T.A.B.

ANALYSIS	RESULTS	UNITS
Residue, Total	82.5	%
Copper, Total	15	mg/kg
Lead, Total	22	mg/kg
Zinc, Total	48	mg/kg

CERTIFIED



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Public Health Association, unless otherwise indicated.



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Complete Analytical Services

C

C

C

12. LETTER FROM PADEP TO ALLIS MINERAL SYSTEMS, SEPTEMBER 18, 2000

PROVIDED BY: PADEP



Pennsylvania Department of Environmental Protection

909 Elmerton Avenue
Harrisburg, PA 17110-8200

September 18, 2000

36
FILE COPY

Southcentral Regional Office

717-705-4707
FAX - 717-705-4760

Mr. Korlan B. Strayer, Manager
Svedala Industries, Inc.
Grinding Division
240 Arch Street, PO Box 15312
York, PA 17405

Re: Impoundment Closure Plan
Svedala Grinding
York City, York County

Dear Mr. Strayer:

The Department has reviewed your Closure Plan for the residual waste storage impoundment, submitted in April 1995, by your consultant, Buchart-Horn, Inc. At that time, closure was anticipated to take place during fiscal year 1999. It is my understanding that Svedala Industries, Inc. was waiting for written approval from the Department prior to commencing closure of the impoundment.

This letter is considered to be an approval for the closure of the residual waste storage impoundment at the Svedala Industries, Inc. Grinding Division in York City, York County.

Svedala Industries, Inc. should contact this office when closure begins and if any unanticipated problems arise during closure that would require changes in the original closure plan.

If you have any questions regarding this approval or the closure process, please call me at 717-705-4812.

Sincerely,

Michelle Curry
Permits Section
Water Management Program

13. LETTER FROM PADEP TO METSO MINERALS, AUGUST 1, 1994



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

One Ararat Boulevard
Harrisburg, PA 17110
August 1, 1994

(717) 657-4592

Southcentral Regional Office

Svedala Industries, Inc.
P.O. Box 15312
York, PA 17405

Re: Non-Regulated
Allis Mineral Systems
Grinding Division Facility
City of York, York County

Ladies and Gentlemen:

This is to acknowledge that we have reviewed the groundwater characterization for the above referenced property. Based upon the analytical laboratory results, for the groundwater samples collected from Monitoring Wells MW-1 and MW-2, the Department is requiring no further action, at this time. This should not, however, be construed as a waiver of liability for any future problems that may arise as a result of conditions, at the site.

Should you have any questions, please feel free to contact me at the above number.

Sincerely,

Robin L. Yerger
Hydrogeologist
Environmental Cleanup Program

cc: Buchart-Horn, Inc.



FROM:

TRANSMITTAL FORM

- ☐ The Quadrangle
Village of Cross Keys
244 West Block
Baltimore, MD 21210-1885
301 323 7400
301 532 8200
FAX # 301 323 9253
- ☐ Frankfurter Strasse 33-35
Postfach 5164
D-6236 Eschborn
Federal Republic of Germany
06196-41730
FAX # 011 49 6196 41730
- ☐ Suite 261
3701 Williams Boulevard
Kenner, LA 70065-3060
504 443 3437
FAX # 504 443 6470
- ☐ Suite 300
900 East Eighth Avenue
King of Prussia, PA 19406-1302
215 337 1511
FAX # 215 337 9548
- ☐ 400 Market Street
P.O. Box 173
Lewisburg, PA 17837-0173
717 524 2235
FAX # 717 524 0920
- ☐ Suite 600
4B Eves Drive
Marlton, NJ 08053-3127
609 983 0110
FAX # 609 983 8739
- ☐ Suite 330
3387 Poplar Avenue
Memphis, TN 38111-4642
901 327 7940
FAX # 901 327 7959
- ☐ 1200 West College Avenue
State College, PA 16801-2824
814 237 7111
FAX # 814 237 5692
- ☐ Busch Corporate Center
Suite 250
460 McLaws Circle
Williamsburg, VA 23185-5628
804 229 3359
804 627 6195 (Norfolk)
FAX # 804 220 3721
- ☒ 55 South Richland Avenue
P.O. Box 15055
York, PA 17405-7055
717 843 5561
FAX # 717 845 3703
- ☐ 611 West Market Street
P.O. Box 15040
York, PA 17405-7040
717 843 3854
FAX # 717 845 3822

Ms. Robin Yerger
TO: Pennsylvania Department of
Environmental Resources
Environmental Cleanup Program
One Ararat Boulevard
Harrisburg, PA 17110

DATE: June 15, 1994

PROJECT: Unregulated Storage Tank, BH No. 65273

☒ Enclosed Herewith ☐ Under Separate Cover are the following:

One (1) copy of "Underground Fuel Oil Storage Tank - Groundwater
Characterization - Allis Mineral Systems, Svedala Industries, Inc."

☐ For Approval ☒ For Your Use ☐ Make Corrections Noted and ☐
☐ For Your Signature ☐ No Exceptions Taken ☐ Rejected - See Remarks

Remarks: If you have any questions concerning this report,
please contact me.

Very truly yours,

cc:

BUCHART-HORN, INC.

CK K...

see Teresa A. Blauch
Engineering Geologist II
Chemistry and Earth Sciences Division

ENVIRONMENTAL CLEANUP

JUN 17 AM 9:41

**UNDERGROUND FUEL OIL STORAGE TANK
GROUNDWATER CHARACTERIZATION**

**ALLIS MINERAL SYSTEMS
SVEDALA INDUSTRIES, INC.**

**GRINDING DIVISION FACILITY
YORK, PENNSYLVANIA**

BH NO. 65273

JUNE, 1994

PREPARED FOR:

**SVEDALA INDUSTRIES, INC.
P.O. BOX 15312
YORK, PENNSYLVANIA 17405**

PREPARED BY:

**BUCHART-HORN, INC.
CONSULTING ENGINEERS AND PLANNERS**

**P.O. BOX 15055
55 SOUTH RICHLAND AVENUE
YORK, PENNSYLVANIA 17405**

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SECTION 2	PHYSICAL SETTING	2 - 1
SECTION 3	PROCEDURES.....	3 - 1
SECTION 4	RESULTS	4 - 1
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FIGURE 2	FORMER UNDERGROUND STORAGE TANK AREA

LIST OF TABLES

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TABLE 2	ANALYTICAL SUMMARY

APPENDICES

APPENDIX A	WELL LOGS
APPENDIX B	ANALYTICAL REPORTS

SECTION 1

INTRODUCTION

Buchart-Horn, Inc. is pleased to present this report on the groundwater characterization for the unregulated Underground Storage Tank (UST) closure at the Allis Mineral Systems - Grinding Division facility, York City and Spring Garden Township, York County, Pennsylvania.

Location

The UST site is situated on the northwest corner of the intersection of Loucks Mill Road and Arch Street. The location of the tank is approximately 39° 58'13" north latitude and 76° 43'33" west longitude. Figure 1 is a portion of the United States Geologic Survey's York, Pennsylvania 7.5 Minute Quadrangle showing the site location and surrounding vicinity.

Background

The UST contained #2 Fuel Oil and was reputed to be used for heating an adjacent building. Its capacity was approximately 650 gallons. It was removed on October 21, 1992. The soil underneath the UST was visually stained and emitted a petroleum odor. Impacted soil was excavated to bedrock (approximately eleven feet to fourteen feet). A groundwater characterization study was proposed to the Pennsylvania Department of Environmental Resources (PADER) in a letter dated June 17, 1993, and subsequently approved.

SECTION 2

PHYSICAL SETTING

Topography

The elevation of the site is approximately 366 feet above mean sea level. The slope on-site is nearly level but gently tapers toward the west-northwest, towards the Codorus Creek.

Soils

The Soil Survey of York County denotes the on-site soils as belonging to the Hagerstown silt loam, three to eight percent slopes. Hagerstown soils are commonly found on uplands. They are deep and well-drained with a silt loam surface layer. The subsoil is a clay loam to clay. During the excavation of the UST, fill material was also encountered.

Geology and Hydrogeology

Allis Mineral Systems - Grinding Division lies within the Valley and Ridge Physiographic Province of the Appalachian Mountains. The subsurface geology of the surrounding area is heavily faulted with thrust faults trending east-west and normal faults trending north-south.

The underlying bedrock consists of shaly limestones and dolomites from the Cambrian Kinzers Formation. Carbonates within the Kinzers Formation are medium gray to dark gray and crystalline. They weather light gray to tan. The Kinzers Formation has an average thickness of 200 feet. As determined from on-site wells and the tank excavation, the depth to bedrock ranges from eleven to fifteen feet below grade.

According to the Pennsylvania Geologic Survey Environmental Geology of the Greater York Area, York County, Pennsylvania, 1977, Environmental Geology Report 6, most water bearing zones are encountered within 200 feet of the surface. The median yield of the carbonate rocks is seven gallons per minute (gpm). Yields ranged from 1 gpm to 250 gpm. The medium hardness is 12 grams per gallon. Specific conductance values averaged 525 micro omhos/centimeter.

The depth to the water table is approximately 14 feet below grade. The upper aquifer is unconfined. The water table is believed to be a subdued replica of the topography. Groundwater gradient is partially controlled by the Codorus Creek, located 400 feet to the west. The gradient direction is towards the west-northwest.

SECTION 3 PROCEDURES

Two (2) monitoring wells were installed at the UST site on February 2, 1994, by William Reichart, Inc. of Hanover, Pennsylvania. The boreholes were advanced with an Ingersoll Rand T4W air rotary drill rig. The drill rig was steam-cleaned between each borehole. Because the previous excavation abutted the property line, the downgradient monitoring well MW-1 was located within the excavation, at its northwest extent. Monitoring well MW-2 was located in the presumed upgradient direction of the UST excavation. Well locations are shown on the accompanying map.

Because the contamination, if any, of the groundwater would be associated with #2 Fuel Oil and have petroleum characteristics, shallow groundwater monitoring wells were believed sufficient. The petroleum constituents are lighter than water and would "float" atop the water table. In both wells, screen was set to straddle the water table. The screen and riser pipe consisted of schedule 40 PVC piping. Fifteen feet of screen was placed in each well. Well construction details are attached in Appendix A. Each well was built to that a sand pack encompassed the screen and was plugged by a bentonite seal to deter surface infiltration. Annular space was grouted. Protective steel casing with a locking cap secured each well. Table 1 is a Well Summary.

Both wells were drilled to a total depth of thirty feet. No significant water zones were encountered and the wells were dry at the time of well construction. Water levels in the wells were observed twenty-four hours after construction. Water levels in the upgradient well had risen above the screen.

Groundwater samples were collected on February 8, 1994, and sixty days later on April 8, 1994. Water levels were measured with an electronic well probe and were determined to be above the top of the screen. In February, the water level was six inches above the screen in MW-1 and three inches in MW-2. Water levels significantly increased between the February round and the April round. In April, the water level rose 2.5 feet above the screen in MW-1 and 3.5 feet above the screen in MW-2. Because the water levels had risen above the top of the screen, groundwater was removed until the well dried up. This ensured that during purging, the water levels would fall beneath the screen's top. Any petroleum constituents floating on the water table would enter into the well and could then be detected.

Wells were purged using a laboratory-decontaminated teflon bailer. Discharge was directed away from the well. All non-dedicated downhole equipment was decontaminated between each well.

Samples were poured into the appropriate container using the same bailer with which it was purged. The samples were placed in a chilled cooler and hand-delivered to BH Laboratories of York, Pennsylvania, the same day they were collected. Analyses included Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 624 and Total Petroleum Hydrocarbons (TPH) by Gas Chromatography/Flame Ionization Detection. A field blank and a travel blank were included for Quality Assurance/Quality Control purposes. The blanks were analyzed for BTEX. Samples and blanks were documented on a Chain-of-Custody form.

SECTION 4 RESULTS

The water table gradient was relatively flat. However, the piezometric surface in MW-1 was slightly higher than MW-2, indicating a gradient away from the Codorus Creek. The tank site is situated near an outer bend of the creek. The creek's current may result in the groundwater being "pushed" away from the stream during high flow periods, producing localized gradient reversals. Below is a comparison of water levels in the two wells:

WATER LEVEL ELEVATIONS (feet)

DATE	MW-1	MW-2	Difference
02/03/94	352.0	351.8	0.2
02/04/94	351.83	351.76	0.07
02/08/94	352.3	351.66	0.64
04/08/94	354.98	354.93	0.05

The levels above show a fluctuating water table. Although the gradient is reversed from the expected, an upgradient and downgradient well still exist to determine the impact on groundwater from the UST.

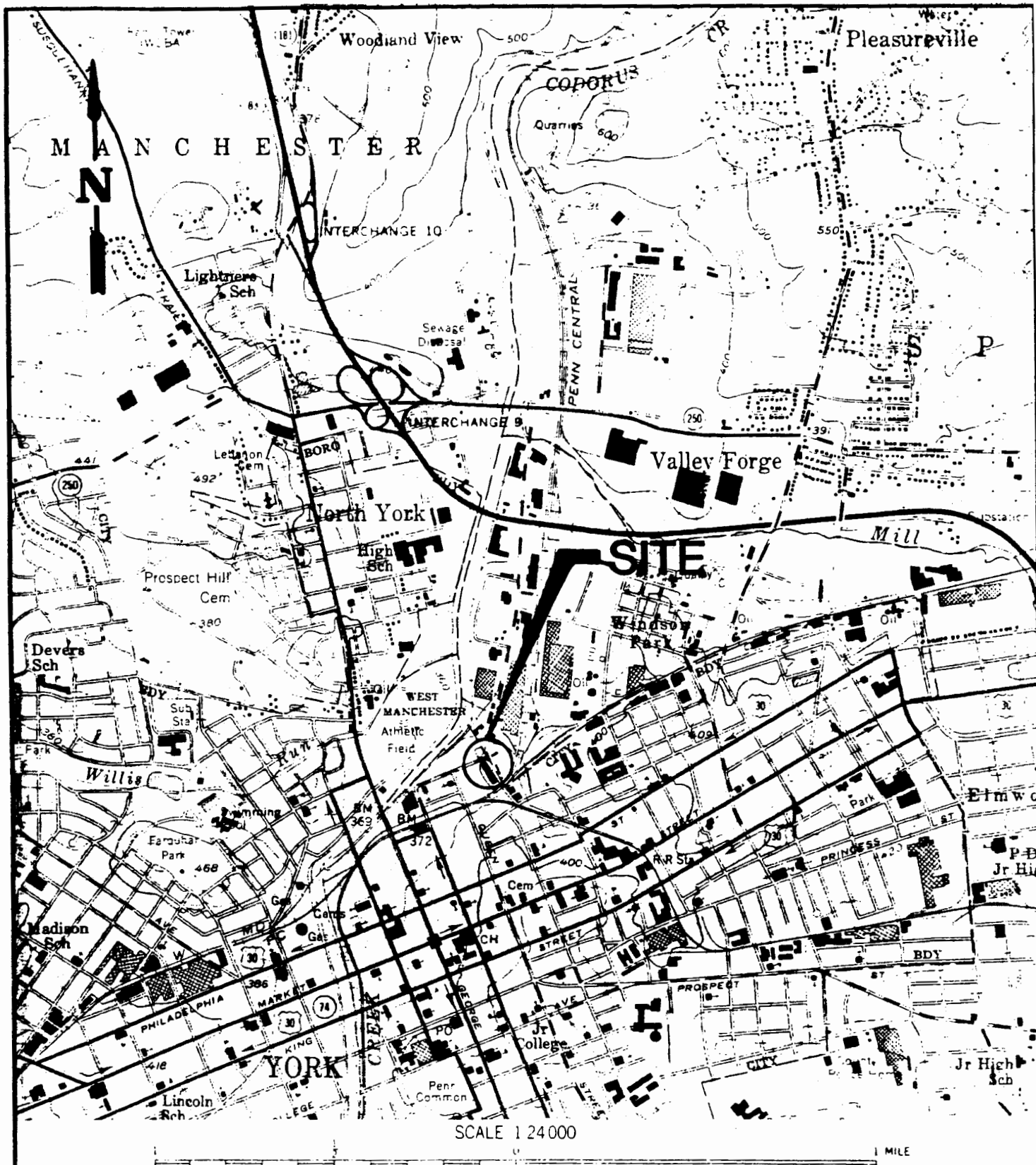
Laboratory analytical reports are attached in Appendix B. Table 2 summarizes the analytical results. No BTEX or TPH was detected in the groundwater samples from MW-1 or MW-2 in either sampling round. Detection limits were below the EPA's Maximum Contaminant Levels.

SECTION 5

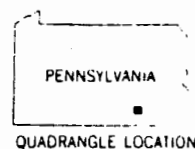
CONCLUSIONS and RECOMMENDATIONS

Based on the laboratory results, no petroleum products were detected in the groundwater. The petroleum-impacted soil has been removed from the excavation and no impact to groundwater was found. Therefore, the UST should be considered properly closed. No further investigations are recommended at this time.

FIGURES



YORK QUADRANGLE
PENNSYLVANIA—YORK CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 YORK 15' QUADRANGLE



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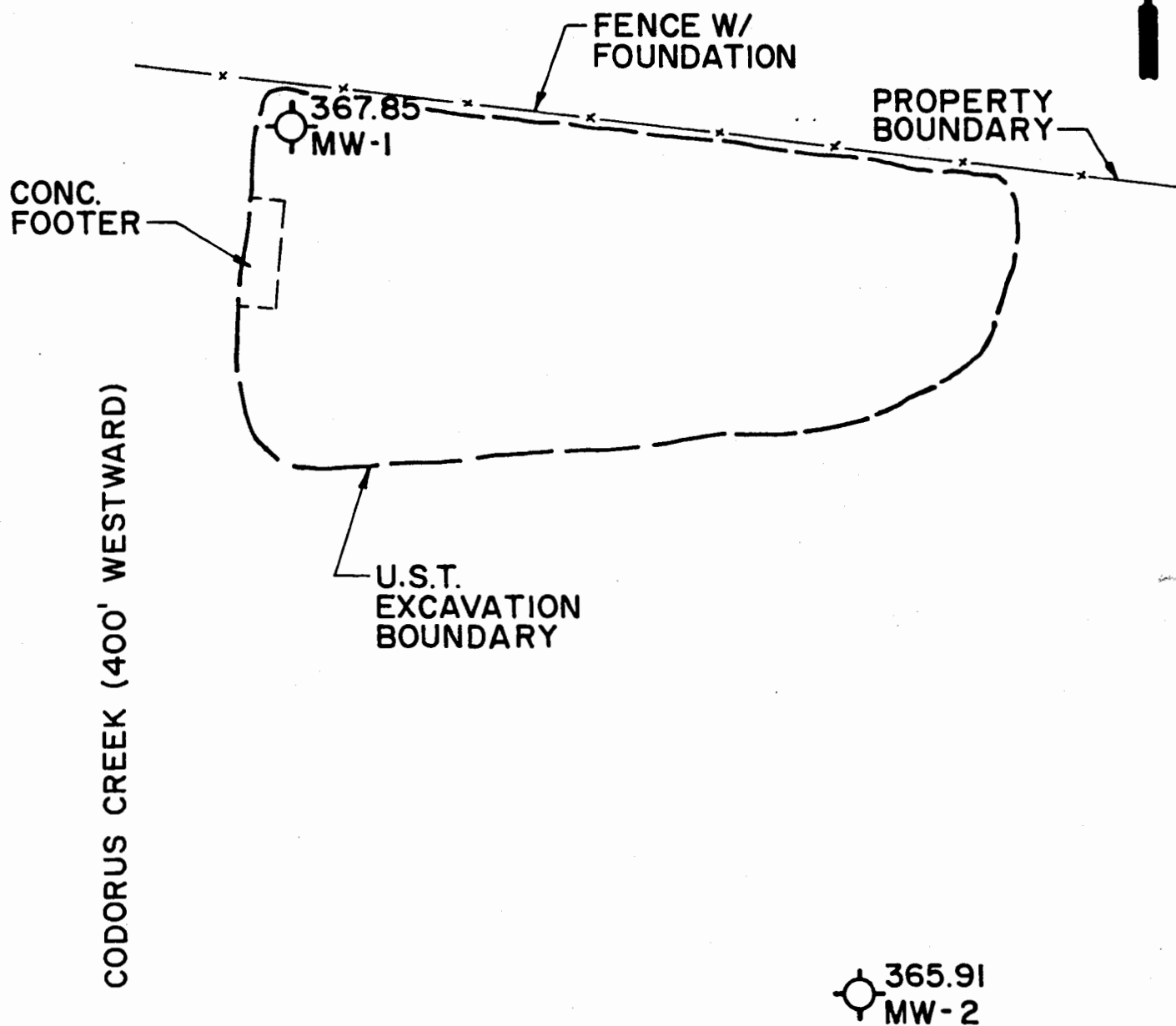
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ALLIS MINERAL SYSTEMS
GRINDING DIVISION

SITE LOCATION AND
SURROUNDING VICINITY

DRAWING NO
FIG. 1.1
SHEET NO
PROJECT NO



367.85 T.O.C. ELEVATION (FT)
MW-1 MONITORING WELL

365.91
MW-2

(NOT TO SCALE)

PRINTED BY: BUCHART HORN, INC.

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DESIGN BY	
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DATE	DRAWING SHALL NOT BE SCALED



ALLIS MINERAL SYSTEMS
FORMER UNDERGROUND
STORAGE TANK AREA

DRAWING NO	FIG. 2
SHEET NO	
PROJECT NO	

TABLES

**TABLE 1
WELL SUMMARY**

MONITORING WELL I.D.	DATE DRILLED	WELL DIAMETER	RELATIVE ELEVATION*	DEPTH (Below ground surface)	WATER LEVEL (ft. from TOC)
MW-1	02/04/94	4"	367.85	30'	16.0'
MW-2	02/04/94	4"	365.91	30'	14.1'

TABLE 2
ANALYTICAL SUMMARY

[illegible]

APPENDIX A

DATE STARTED <u>February 2, 1994</u>	HOLE NO. <u>MW-1</u>
DATE FINISHED <u>February 2, 1994</u>	SHEET <u>1</u> OF <u>1</u>
SURFACE ELEVATION _____	<u>30'</u>
<u>Ingersoll Rand T4W</u>	WATER LEVEL AFTER DRILLING
RIG MODEL	<u>15.5'</u>
	24 HR. WATER LEVEL

<u>Allis Mineral Systems</u>	<u>Former UST Site</u>
PROJECT NAME	LOCATION
<u>65273</u>	<u>Sunny, 28° F</u>
PROJECT NO.	WEATHER

DEPTH	DESCRIPTION	PID (ppm)	COMMENTS	WELL CONSTRUCTION
			Down-gradient well	
0 -				
-				
-	Poorly sorted sandy fill	0		4" Diam. Sched. 40 PVC Riser
-				
10 -	Poorly sorted sandy fill	0		Grout
-				Bentonite
-	Light gray to tan dolomitic limestone, crystalline	0	Competent bedrock at 15 feet	10" Diam. Borehole
-				
20 -	Medium gray limestone, crystalline	3.7		#1 Morie Well Gravel
-				
-	Dark gray limestone, crystalline, calcitic veins	0.4		4" Diam. Sched. 40 PVC 20 mil Slotted Screen
-			No water zones encountered	
30 -	Dark gray limestone, crystalline, calcitic veins	6.0	B.O.H. - 30 feet	
-				
-				
40 -				
-				
-				
50 -				

DRILLER: Wm. W. Reichart, Inc.

INSPECTOR: Teresa Blumh

DATE STARTED <u>February 2, 1994</u>	HOLE NO. <u>MW-2</u>
DATE FINISHED <u>February 2, 1994</u>	SHEET <u>1</u> OF <u>1</u>
SURFACE ELEVATION _____	<u>29'</u>
<u>Ingersoll Rand T4W</u>	WATER LEVEL AFTER DRILLING
RIG MODEL	<u>14.5'</u>
	24 HR. WATER LEVEL

<u>Allis Mineral Systems</u>	<u>Former UST Site</u>
PROJECT NAME	LOCATION
<u>65273</u>	<u>Sunny, 28° F</u>
PROJECT NO.	WEATHER

DEPTH	DESCRIPTION	PID (ppm)	COMMENTS	WELL CONSTRUCTION
0 -			Up-gradient well	Flush Mount
-				
-	Dark yellowish brown clayey silty fill	5.9		4" Diam. Sched. 40 PVC Riser
-				
10 -	Yellowish brown silty clayey fill	23.1		Grout
-				Bentonite
-	Light gray dolomitic limestone, crystalline	6.6	Competent bedrock at 14 feet	10" Diam. Borehole
-				
20 -	Light gray limestone, crystalline	2.4		#1 Morie Well Gravel
-				
-	Light gray to tan limestone, crystalline	1.9	No water zones encountered	4" Diam. Sched. 40 PVC 20 mil. Slotted Screen
-				
30 -	Light gray limestone, crystalline	6.6	B.O.H. - 29.5 feet	
-				
-				
40 -				
-				
-				
50 -				

DRILLER: <u>Wm. W. Reichart, Inc.</u>	INSPECTOR: <u>Teresa Blauch</u>
---------------------------------------	---------------------------------

APPENDIX B



B-H LABORATORIES

978 Loucks Mill Road
York PA 17402-1999
717 843 5561
FAX: 717 852 8923

Laboratory Certified By:
Department of Environmental Resources #67042
Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Dan O'Connell

FROM: Scott Brunk

DATE: 02/25/94

Received: 02/08/94
Delivered by: R. Close

RE : Sample #GDW940948 Collected 02/08/94 @ 1035 Hours
MW-1
MPSI

LAB#	ANALYSIS	RESULTS	UNITS
940948	Total Petroleum Hydrocarbons	< 4.0	mg/l
	Benzene	< 5.0	ug/l
	Ethylbenzene	< 5.0	ug/l
	Toluene	< 5.0	ug/l
	Xylenes, Total	< 5.0	ug/l

CERTIFIED: _____

Scott Brunk

All analyses are performed in accordance with procedures outlined in Standard Methods
for the Examination of Water and Waste Water 16th Edition, published by the American
Public Health Association, unless otherwise indicated.



B-H LABORATORIES

978 Loucks Mill Road
York, PA 17402-1999
717 843 5561
FAX 717 852 8923

TO : Dan O'Connell

FROM: Scott Brunk

DATE: 02/25/94

RE : Sample #GDW940949 Collected 02/08/94 @ 1125 Hours
MW-2
MPSI

Laboratory Certified By:
Department of Environmental Resources #67042

Member Pennsylvania Association of Accredited
Environmental Laboratories

Received: 02/08/94

Delivered by: R. Close

LAB#	ANALYSIS	RESULTS	UNITS
940949	Total Petroleum Hydrocarbons	< 10	mg/l
	Benzene	< 5.0	ug/l
	Ethylbenzene	< 5.0	ug/l
	Toluene	< 5.0	ug/l
	Xylenes, Total	< 5.0	ug/l

CERTIFIED

Scott Brunk

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Department of Environmental Resources #67042

Member Pennsylvania Association of Accredited
Environmental Laboratories

TO : Dan O'Connell

FROM: Scott Brunk

DATE: 02/25/94

Received: 02/08/94
Delivered by: R. Close

RE : Sample #GDW940950 Collected 02/08/94 @ 0950 Hours
Field Blank
MPSI

LAB#	ANALYSIS	RESULTS	UNITS
940950	Benzene	< 5.0	ug/l
	Ethylbenzene	< 5.0	ug/l
	Toluene	< 5.0	ug/l
	Xylene, Total	< 5.0	ug/l

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Received: 02/08/94
Delivered by: R. Close

TO : Dan O'Connell

FROM: Scott Brunk

DATE: 02/25/94

RE : Sample #GDW940951 Collected 02/08/94 By J.L.G.
Travel Blank
MPSI

LAB#	ANALYSIS	RESULTS	UNITS
940951	Benzene	< 5.0	ug/l
	Ethylbenzene	< 5.0	ug/l
	Toluene	< 5.0	ug/l
	Xylene, Total	< 5.0	ug/l

CERTIFIED: _____

Scott A. Brunk

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Received: 04/08/94
Delivered by: R. Close

TO : Dan O'Connell

FROM: Scott Brunk

DATE: 05/12/94

RE : Sample #GDW942898 Collected 04/08/94 @ 1140 Hours
MW-1
MPSI

LAB#	ANALYSIS	RESULTS	UNITS
942898	Total Petroleum Hydrocarbons	< 0.10	mg/l
	Benzene	< 5.0	ug/l
	Ethylbenzene	< 5.0	ug/l
	Toluene	< 5.0	ug/l
	Xylenes, Total	< 5.0	ug/l

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Environmental Laboratories

Received: 04/08/94
Delivered by: R. Close

TO : Dan O'Connell

FROM: Scott Brunk

DATE: 05/12/94

RE : Sample #GDW942899 Collected 04/08/94 @ 1210 Hours
MW-2
MPSI

LAB#	ANALYSIS	RESULTS	UNITS
942899	Total Petroleum Hydrocarbons	< 0.10	mg/l
	Benzene	< 5.0	ug/l
	Ethylbenzene	< 5.0	ug/l
	Toluene	< 5.0	ug/l
	Xylenes, Total	< 5.0	ug/l

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Environmental Laboratories

Received: 04/08/94
Delivered by: R. Close

TO : Dan O'Connell

FROM: Scott Brunk

DATE: 05/12/94

RE : Sample #GDW942900 Collected 04/08/94 @ 0930 Hours
Field Blank
MPSI

LAB#	ANALYSIS	RESULTS	UNITS
942900	Benzene	< 5.0	ug/l
	Ethylbenzene	< 5.0	ug/l
	Toluene	< 5.0	ug/l
	Xylene, Total	< 5.0	ug/l

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Environmental Laboratories

Received: 04/08/94
Delivered by: R. Close

TO : Dan O'Connell

FROM: Scott Brunk

DATE: 05/12/94

RE : Sample #GDW942901 Collected 04/08/94 @ 0930 Hours
Travel Blank
MPSI

LAB#	ANALYSIS	RESULTS	UNITS
942901	Benzene	< 5.0	ug/l
	Ethylbenzene	< 5.0	ug/l
	Toluene	< 5.0	ug/l
	Xylene, Total	< 5.0	ug/l

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